SHARP

1-BIT DIGITAL AUDIO SYSTEM
SYSTÈME AUDIO NUMÉRIQUE 1-BIT
SISTEMA DE AUDIO DIGITAL 1-BIT
1-BIT DIGITAL AUDIO SYSTEM

SISTEMA AUDIO DIGITALE A 1 BIT
1-BITS DIGITAAL AUDIOSYSTEEM
1-BIT DIGITAL AUDIO SYSTEM

SD-NX10H

BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUAL DE MANEJO
BRUKSANVISNING

MANUALE DI ISTRUZIONI
GEBRUIKSAANWIJZING
OPERATION MANUAL

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W

COMPACT disc DIGITAL AUDIO

R·D·S EON

MDLP

MiniDisc

DEUTSCH
Siehe Seiten i bis vi und D-1 bis D-60.

FRANÇAIS
Se reporter aux pages i à vi et F-1 à F-60.

ESPAÑOL
Consulte las páginas i al vi y S-1 al S-60.

SVENSKA
Hänvisa till sidorna i till vi och V-1 till V-60.

ITALIANO
Leggere le pagine i a vi e I-1 a I-60.

NEDERLANDS
Raadpleeg de bladzijden i t/m vi en N-1 t/m N-60.

ENGLISH
Please refer to pages i to vi and E-1 to E-60.

BESONDERE ANMERKUNGEN
REMARQUES SPÉCIALES
NOTAS ESPECIALES
SÄRSKILDA ANMÄRKNINGAR
NOTE PARTICOLARI
BIJZONDERE OPMERKINGEN
SPECIAL NOTES

- Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.
- Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.
- Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.
- Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.
- Quest'apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.
- **Dichiarazione di conformità**
  La società SHARP ELECTRONICS EUROPE GmbH dichiara che il prodotto SHARP SYSTEMA AUDIO DIGITALE A 1BIT SD-NX10H è costruito in conformità alle prescrizioni del D.M.n°548 del 28/8/95, pubblicato sulla G.U.n°301 del 28/12/95 ed in particolare è conforme a quanto indicato nell'art. 2, comma 1 dello stesso decreto.
- Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.
- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.
- Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillaeg nr. 93/68/EEC.
- Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.
- Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.
- Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.
- Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, όπως οι κανονισμοί αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

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- Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant law in your country.

● Bei Einstellung der ON/STAND-BY-Taste auf STAND-BY ist die Netzspannung immer noch im Gerät vorhanden.
Wenn die ON/STAND-BY-Taste auf STAND-BY eingestellt wird, kann das Gerät unter Verwendung der Timer-Betriebsart oder Fernbedienung in Betrieb gesetzt werden.

Warnung:
In diesem Gerät sind keine vom Benutzer wartbaren Teile vorhanden. Niemals Abdeckungen entfernen, außer wenn Sie dafür qualifiziert sind. In diesem Gerät sind gefährliche Spannungen vorhanden. Vor Ausführung von irgendwelchen Kundendienstarbeiten oder bei längerer Nicht-verwendung des Gerätes stets den Netzstecker aus der Netzsteckdose ziehen.

● Lorsque la touche ON/STAND-BY est mise en STAND-BY, l'appareil est toujours sous tension.
Lorsque la touche ON/STAND-BY se trouve sur la position STAND-BY, l'appareil est prêt à fonctionner par la minuterie ou la télécommande.

Avertissement:
Cet appareil contient des pièces non réparables par l'utilisateur. Personne non qualifiée n'enlèvera jamais les couvercles. L'appareil contenant des organes portés à haute tension, débrancher l'appareil avant toute réparation ou en période de non-utilisation.

● Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, todavía hay tensión dentro del aparato.
Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, el aparato puede ponerse en funcionamiento utilizando el modo del temporizador o el controlador remoto.

Advertencia:
Tenga en cuenta que dentro de este aparato no hay piezas que pueda reparar. No quite nunca las tapas a menos que se esté cualificado para hacerlo. Este aparato tiene en su interior tensiones peligrosas.
Desenchufe siempre la clavija de la red del tomacorriente antes de realizar cualquier servicio de mantenimiento y cuando no se use el aparato durante un largo período de tiempo.

● När ON/STAND-BY knappen är i läge STAND-BY, finns nätspänning i apparaten.
Med ON/STAND-BY knappen i läge STAND-BY kan apparaten startas med timerfunktion eller fjärrkontrollen.

Varning:
Apparaten innehåller inga delar som kan åtgärdas av kunden. Höljet får endast öppnas av kvalificerad personal. Apparaten innehåller farliga spänningar.
Stickkontakten ska därför dras ut från nätuttaget före reparationsarbeten och bör dras ut om apparaten inte ska användas på mycket länge.

PŘED SEJMUTÍM KRYTU NUTNO VYJMOUT VIDLICI ZE SÍŤOVÉ ZÁSUVKY.

PRED ZLOŽENÍM KRYTU JE NUTNÉ ODPOJIŤ PRÍSTROJ ZO SIETE.

● Quando il tasto ON/STAND-BY si trova in posizione STAND-BY, all'interno dell'apparecchio c'è ancora la corrente.
Se il tasto ON/STAND-BY si trova nella posizione STAND-BY, l'unità può venire accesa con il modo timer o con il telecomando.

Avvertenza:
L'apparecchio non contiene parti riparabili dall'utente.
Non togliere mai i coperchi, a meno di non essere qualificati per farlo. All'interno dell'apparecchio ci sono tensioni pericolose, per cui si deve sempre staccare la spina del cavo d'alimentazione dalla presa di corrente prima di qualsiasi intervento di manutenzione e quando non si usa l'apparecchio per un lungo periodo di tempo.

● Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, loopt er nog steeds stroom (netspanning) in het toestel.
Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, kan het toestel ingeschakeld worden via de timerfunctie of de afstandsbediening.

Waarschuwing:
Dit toestel bevat geen door de gebruiker te repareren onderdelen. Verwijder de behuizing nooit tenzij u deskundig bent op dit gebied. In het toestel loopt een gevaarlijke spanning; haal de stekker altijd uit het stopcontact alvorens onderhoud uit te voeren of wanneer het toestel voor langere tijd niet gebruikt wordt.

● When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit.
When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.

Warning:
This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.

● Når ON/STAND-BY-knappen er sat i STAND-BY positionen, er der stadig netspaending til stede i apparatet.
Når ON/STAND-BY-knappen er sat i STAND-BY position, kan apparatet startes v.hj.a. timer-funksionen eller fjernbetjeningen.

Advarsel:
Apparatet indeholder ingen dele, der kan repareres af brugeren selv. Fjern aldrig kabinettet med mindre De er kvalificeret hertil. Apparatet indeholder farlig strømspaending. Traek altid stikket ud af stikkontakten før der foretages reparationer, eller hvis apparatet ikke er i brug i laengere tid.

DENNA APPARAT ÄR ANSLUTEN TILL 230 V VÄXELSTRÖM NÄR STICKPROPPEN ÄR INSKJUTEN I VÄGGUTTAGET. FÖR ATT FULLSTÄNDIGT KOPPLA IFRÅN APPARATEN, V.G. DRAG UT STICKPROPPEN.

- **Vorsicht:**
  Das Gerät weder Tropf- noch Spritzwasser aussetzen. Ansonsten besteht die Gefahr eines Brandes oder elektrischen Schlages. Es sollten keine mit Flüssigkeiten gefüllten Gegenstände wie Vasen auf dem Gerät abgestellt werden.
- **Attention:**
  Pour éviter un incendie ou une secousse électrique, mettre l'appareil à l'abri d'eau (éclaboussure, goutte). Ne pas poser sur l'appareil un récipient contenant du liquide.
- **Advertencia:**
  Para evitar incendios y descargas eléctricas, no exponga el aparato a goteo o salpicadura de líquidos. No deberán ponerse encima del aparato objetos que estén llenos de líquido, como por ejemplo un florero.
- **Varning:**
  Utsätt inte enheten för dropp eller stänk för att förhindra brand eller elektriska stötar. Inga vätskefyllda föremål såsom vaser bör placeras på enheten.
- **Attenzione:**
  Per prevenire incendi o scosse elettriche, non fare gocciolare nessun liquido sull'apperecchio e non bagnarlo. Non collocarvi sopra nessun oggetto riempiro d'acqua, come peresempio vasi.
- **Waarschuwing:**
  Stel het toestel niet bloot aan druipend of spattend water om brand en elektrische schokken te voorkomen. Met vloeistoffen gevulde voorwerpen, zoals vazen, mogen niet op het toestel geplaatst worden.
- **Warning:**
  To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

- **Advarsel:**
  Til at forbygge ild og stød risiko, lad vaere med at undsaette denne indretning for drypning eller overstaenkning. Der må ikke anbringes nogen genstande fyldt med vand, som for eksempel vaser, på dette apparat.
- **Advarsel:**
  For å unngå brann eller kortslutning, utsett ikke produktet for vann eller fuktighet. Gjenstander som inneholder vaeske, feks. en blomstervase, må ikke plasseres oppå apparatet.
- **Varoitus:**
  Älä vie laitetta sateeseen tai kosteisiin tiloihin. Jos laite on kostunut, anna sen kuivua ennen kuin käytät sitä verkkovirralla. Nestettä sisältäviä astioita kuten esim. kukkamaljakoita ei saa asettaa laitteen päälle.

PŘÍSTROJ NEVYSTAVUJTE KAPAJÍCÍ NEBO STŘÍKAJÍCÍ VODĚ.

PRÍSTROJ NEVYSTAVUJTE KVAPKAJÚCEJ ALEBO STRIEKAJÚCEJ VODE.

Urządzenie należy chronić przed zalaniem i wilgocią.

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● **VORSICHT**
Verwendung von Regelungen oder Einstellungen bzw. Durchführung von anderen Verfahren als die hierin angegebenen kann zum Aussetzen gefährlicher Strahlung führen.

Da der in diesem Compact Disc Player verwendete Laserstrahl für die Augen schädlich ist, ist das Gehäuse unter keinen Umständen zu zerlegen. Wenden Sie sich für Wartungsarbeiten nur an berechtigten Fachhändler.

● **ATTENTION**
Respecter les indications données relatives à la manipulation, au réglage et au fonctionnement. En cas de non-respect, on s'exposera à une radiation dangereuse.

Éviter absolument de démonter l'appareil, qui utilise un rayon laser nuisible aux yeux. Pour toute réparation, s'adresser à une personne qualifiée.

● **PRECAUCIÓN**
El uso de los controles, ajustes o ejecución de procedimientos distintos de los especificados podría causar la exposición a radiación peligrosa.

No intente desmontar la caja ya que el haz de láser usado en este tocadiscos de discos compactos es perjudicial para los ojos. Para el servicio de reparación, consulte a una persona cualificada.

● **OBSERVERA**
Användning av reglage eller justeringar eller handhavande på annat sätt än som anges kan leda till farlig bestrålning.

Försök inte ta isär höljet eftersom CD-spelarens laserstråle är skadlig för ögonen. Överlåt service endast till kvalificerad personal.

● **ATTENZIONE**
L'uso dei comandi e l'effettuazione di regolazioni e procedimenti diversi da quelli specificati nel manuale possono provocare una pericolosa esposizione alle radiazioni.

Poiché il raggio laser usato in questo giradischi può danneggiare gli occhi, non smontare l'apparecchio. Per le riparazioni rivolgersi a personale specializzato.

● **LET OP**
Gebruik van regelaars, het maken van instellingen, gebruik of handelingen anders dan in deze gebruiksaanwijzing vermeld, kan gevaarlijke straling blootleggen.

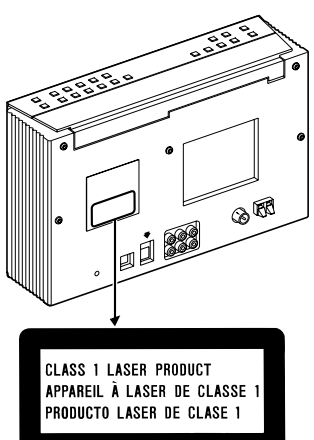
De laserstraal in deze CD-speler kan de ogen beschadigen, Probeer derhalve de ombouw niet te verwijderen. Laat reparaties alleen over aan erkend onderhoudspersoneel.

● **CAUTION**
Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

VÝSTRAHA: VÝROBEK JE VYBAVEN LASEREM. PŘI NESPRÁVNÉ MANIPULACI S PŘÍSTROJEM V ROZPORU S TÍMTO NÁVODEM MŮŽE DOJÍT K NEBEZPEČNÉMU OZÁŘENÍ. NEOTVÍREJTE A NESNÍMEJTE PROTO ŽÁDNÉ KRYTY A PŘÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS SVĚŘTE ODBORNÉMU SERVISU.

**VÝSTRAHA: VÝROBOK JE VYBAVENÝ LASEROM.
PRI NESPRÁVNOM MANIPULOVANÍ S PRÍSTROJOM V ROZPORE S TÝMTO NÁVODOM MÔŽE DÔJSŤ K NEBEZPEČNÉMU OŽIARENIU. NEODKRÝVAJTE PRETO ŽIADNE KRYTY A PRÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS PRENECHAJTE ODBORNÉMU SERVISU.**



LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
LASER TŘÍDY 1
LASER TRIEDY 1

Eigenschaften der Laserdiode
- Material: GaAlAs
- Wellenlänge: 785 nm
- Impulszeit:
  Lesemodus: 0,8 mW, kontinuierlich
  Schreibmodus: max. 10 mW, 0,5 S
  min. Zyklus 1,5 S
  Wiederholung

Caractéristiques de la diode laser
- Matière: GaAlAs
- Longueur d'onde: 785 nm
- Durées de l'impulsion:
  Mode de lecture: 0,8 mW (ininterrompue)
  Mode d'écriture: 10 mW (maxi), 0,5 s
  Cycle mini 1,5 s
  Répétition

Propiedades del diodo láser
- Material: GaAlAs
- Longitud de onda: 785 nm
- Tiempos del pulso:
  Modo de lectura: 0,8 mW continuo
  Modo de escritura: máx. 10 mW 0,5s
  Ciclo min 1,5s
  Repetición

Laserdiodens egenskaper
- Material: GaAlAs
- Våglängd: 785 nm
- Impulstider:
  Läsfunktion: 0,8 mW kontinuerlig
  Skrivfunktion: max. 10 mW 0,5 S
  min. cykel 1,5 S
  Repetition

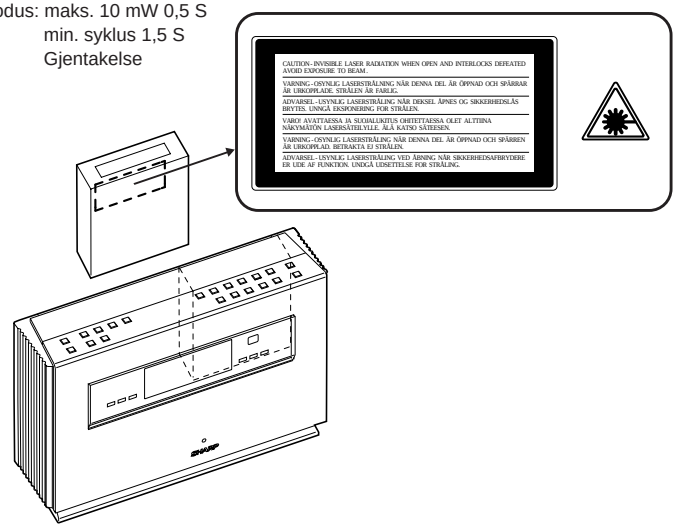
Proprietà del diodo laser
- Materiale: GaAlAs
- Lunghezza d'onda: 785 nm
- Tempo di impulso:
  Modo di lettura: 0,8 mW Continua
  Modo di scrittura: max 10 mW 0,5 S
  ciclo minimo 1,5 S
  Ripetizione

Karakteristieken van laserdidode
- Materiaal: GaAlAs
- Golflengte: 785 nm
- Pulstijden:
  Leesfunctie: 0,8 mW Doorlopend
  Schrijffunctie: max. 10 mW 0,5 S
  min. cycle 1,5 S
  Herhaling

Laser Diode Properties
- Material: GaAlAs
- Wavelength: 785 nm
- Pulse time:
  Read mode: 0.8 mW Continuous
  Write mode: max 10 mW 0.5S
  min cycle 1.5S
  Repetition

Laserdiodens egenskaber
- Materiale: GaAlAs
- Bolgelængde: 785 nm
- Impulstider:
  Læsemodus: 0,8 mW kontinuerlig
  Skrivemodus: max 10 mW 0,5 S
  min cyklus 1,5 S
  Repetition

Laserdiodens egenskaper
- Material: GaAlAs
- Bølgelengde: 785 nm
- pulstid:
  Lese-modus: 0,8 mW kontinuerlig
  Skrive-modus: maks. 10 mW 0,5 S
  min. syklus 1,5 S
  Gjentakelse


CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED AVOID EXPOSURE TO BEAM.
VARNING - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRRAR ÄR URKOPPLADE. STRÅLEN ÄR FARLIG.
ADVARSEL - USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VAROI AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEN.
VARNING - OSYNLIG LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVARSEL - USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

1-Bit Digital Audio System SD-NX10H besteht aus SD-NX10H (MD/CD-Tuner-Einheit und Verstärker-Einheit) und CP-NX10H (Lautsprechersystem).
Système audio numérique 1-bit SD-NX10H composé de SD-NX10H (unité MD/CD/tuner et amplificateur) et de CP-NX10H (enceintes acoustiques).
Sistema de audio digital 1-bit SD-NX10H que consta de SD-NX10H (unidad de MD/CD/sintonizador y amplificador) y CP-NX10H (sistema de altavoces).
SD-NX10H 1-Bit Digital Audio System bestående av SD-NX10H (MD/CD/kanalväljarenhet och förstärkarenhet) och CP-NX10H (högtalarsystem).
Sistema audio digitale a 1 bit SD-NX10H consiste di SD-NX10H (lettore MD/CD/sintonizzatore e amplificatore) e CP-NX10H (diffusori).
SD-NX10H 1-bits digitaal audiosysteem bestaande uit SD-NX10H (MD/CD/tunereenheid en versterkereenheid) en CP-NX10H (luidsprekersysteem).
SD-NX10H 1-Bit Digital Audio System consisting of SD-NX10H (MD/CD/tuner unit and amplifier unit) and CP-NX10H (speaker system).

Introduction

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

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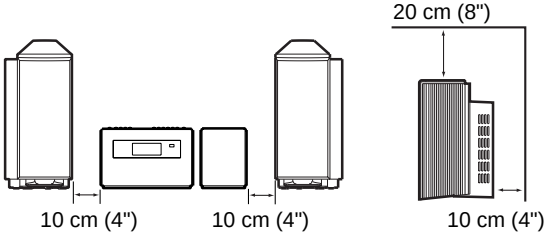
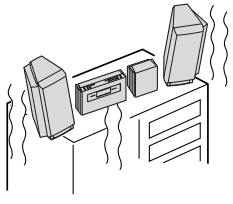
Precautions

■ General

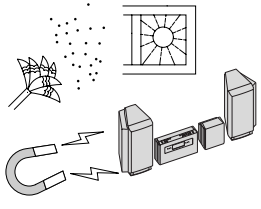
Please ensure that the equipment is positioned in a well-ventilated area and ensure that there is at least 10 cm (4") of free space along the sides and back. There must also be a minimum of 20 cm (8") of free space on the top of the unit.



- Use the unit on a firm, level surface free from vibration.

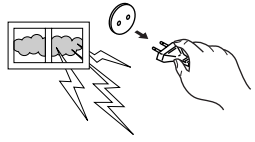


- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.

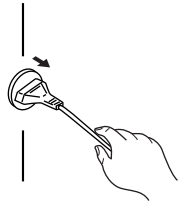


- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.

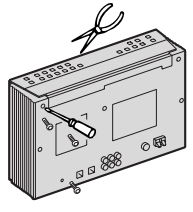
- In case of an electrical storm, unplug the unit for safety.



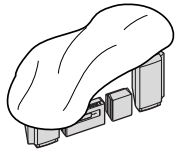
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.



- Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.



- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

Precautions (continued)

Warning:

- The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

- This product is equipped with a cooling fan on the back of the amplifier for better heat radiation.

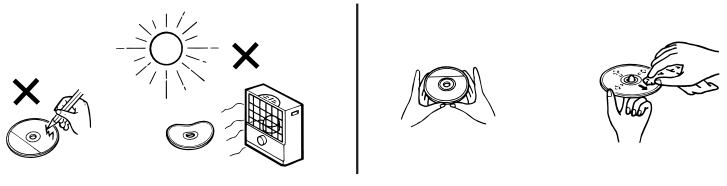
■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels, which occurs whilst turning the unit on with the volume control setting up high, or whilst continually listening at high volumes.

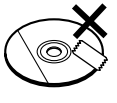
■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.

- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.

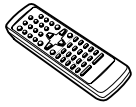
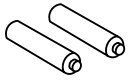
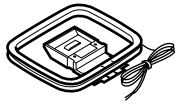
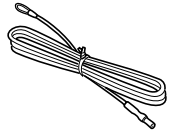
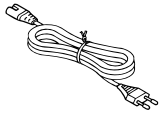
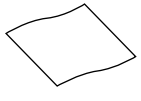


- Do not attach labels or adhesive tapes on the CD. It may cause malfunction to the unit.



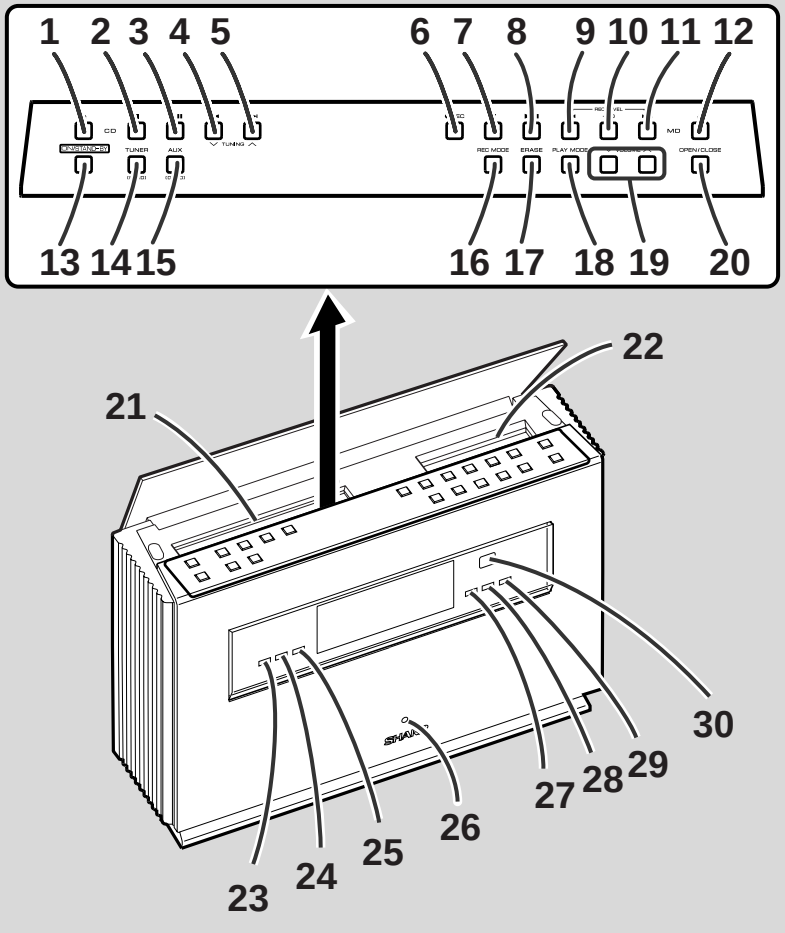
Accessories

Please confirm that the following accessories are included.

 Remote control × 1	 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar)× 2
 AM loop aerial × 1	 FM aerial × 1
Speaker wire × 2	 AC power lead × 1
System connection lead × 1	Sound connection lead × 1
 Soft cloth × 1	

Note:
Only the above accessories are included.

Controls and Indicators

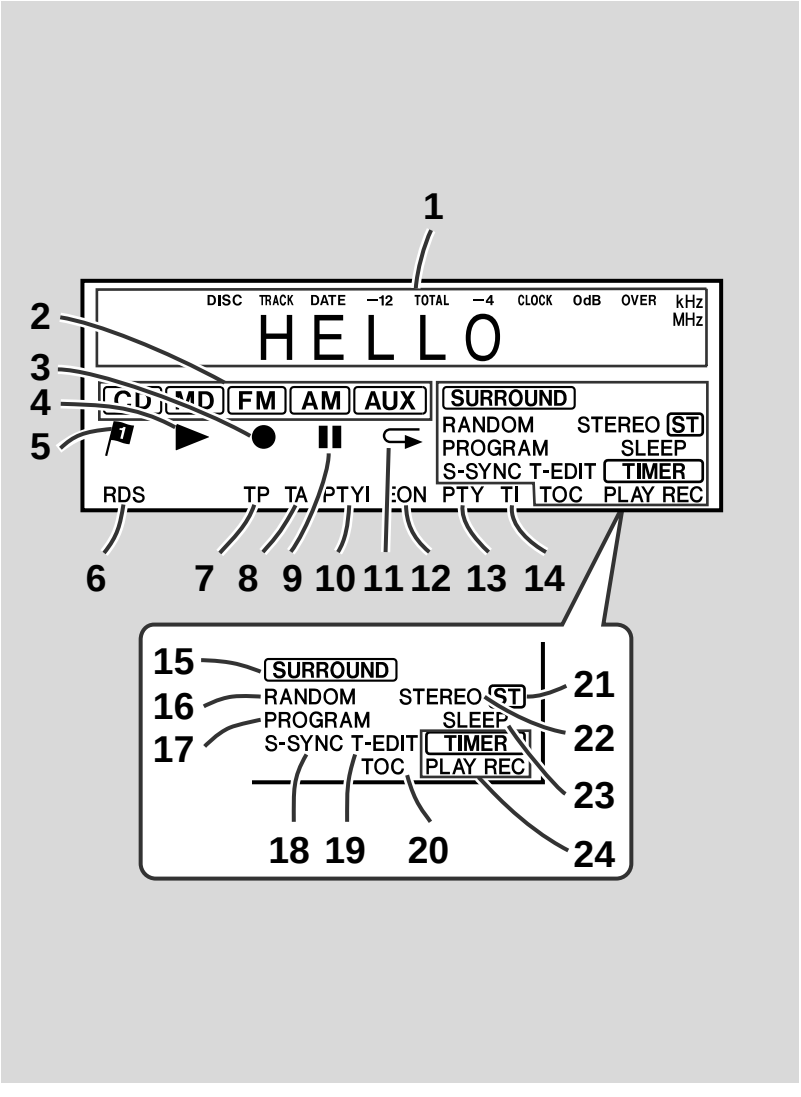


■ MD/CD/tuner unit front panel

Reference page

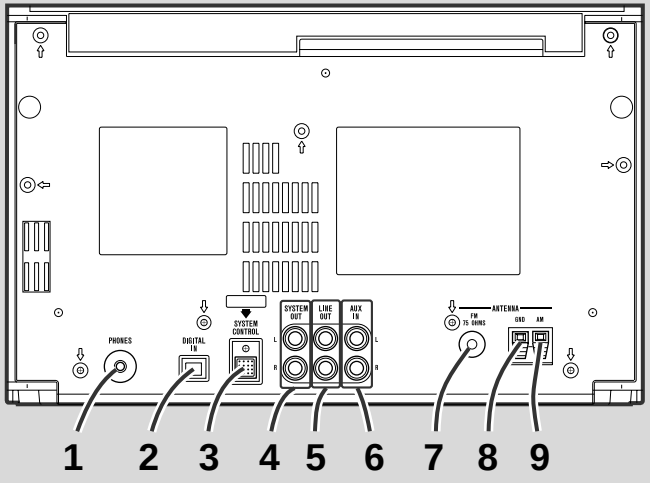
1. CD Eject Button 18
2. CD Stop Button 17
3. CD Play/Pause Button 17
4. CD Fast Reverse/Tuning Down Button 18, 25
5. CD Fast Forward/Tuning Up Button 18, 25
6. MD Record Button 38
7. MD Stop Button 21
8. MD Play/Pause Button 20
9. MD Recording Level/MD Fast Reverse Button 21, 38
10. MD +10 Track Up Button 21
11. MD Recording Level/MD Fast Forward Button 21, 38
12. MD Eject Button 21
13. On/Stand-by Button 17
14. Tuner (Band) Button 25
15. Auxiliary/Demo Button 13, 54
16. MD Record Mode Button 35
17. Erase Button 47
18. CD/MD Play Mode Select Button 23
19. Volume Up or Down Button 15
20. CD/MD Cover Open/Close Button 17
21. CD Compartment 17
22. MD Compartment 20
23. Timer Indicator 49
24. Sleep Indicator 51
25. Monaural Recording Indicator 35
26. Power Indicator
27. Stereo Recording Indicator 35
28. 2 times Long Recording (stereo) Indicator 35
29. 4 times Long Recording (stereo) Indicator 35
30. Remote Sensor 10

Controls and Indicators (continued)



■ Multi-function LCD display

1. Level Meter/Character Information/Frequency Indicator
2. Function Indicator
3. Record Indicator
4. CD/MD Play Indicator
5. Top Position Indicator
6. RDS Indicator
7. Traffic Programme Indicator
8. Traffic Announcement Indicator
9. MD Record Pause Indicator
10. Dynamic PTY Indicator
11. CD/MD Repeat Indicator
12. EON Indicator
13. Programme Type Indicator
14. Traffic Information Indicator
15. Surround Indicator
16. Random Play Indicator
17. Programme Play Indicator
18. Sound Synchronised Recording Indicator
19. Track Edit Indicator
20. TOC Indicator
21. FM Stereo Indicator
22. FM Stereo Mode Indicator
23. Sleep Indicator
24. Timer Play/Recording Indicator

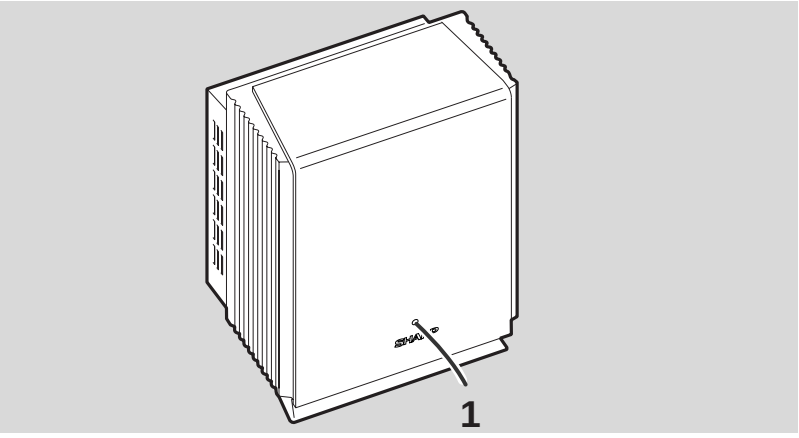


■ MD/CD/tuner unit rear panel

Reference page

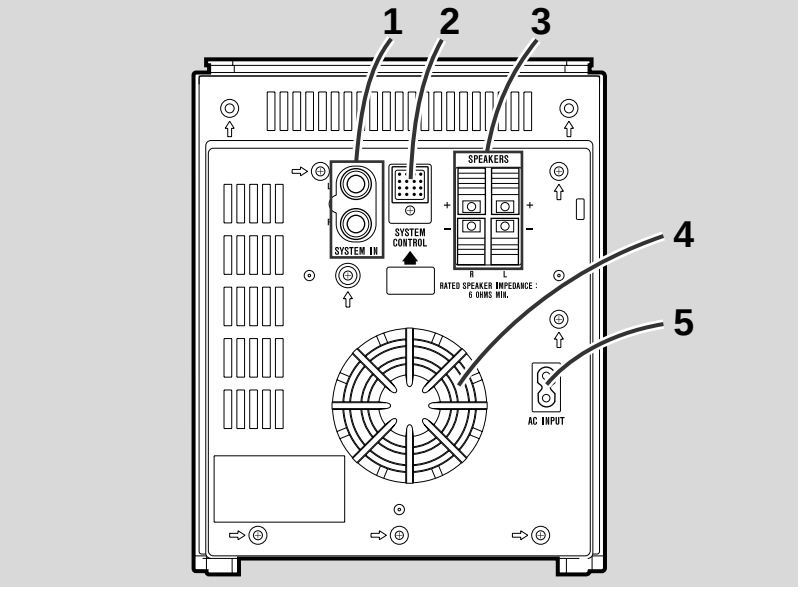
1. Headphone Socket 53
2. Digital Input Socket 53
3. System Control Socket 13
4. System Output Sockets 13
5. Line Output Sockets 53
6. Auxiliary Input Sockets 53
7. FM 75 Ohms Aerial Socket 12
8. Aerial Earth Terminal 13
9. AM Loop Aerial Terminal 12

Controls and Indicators (continued)



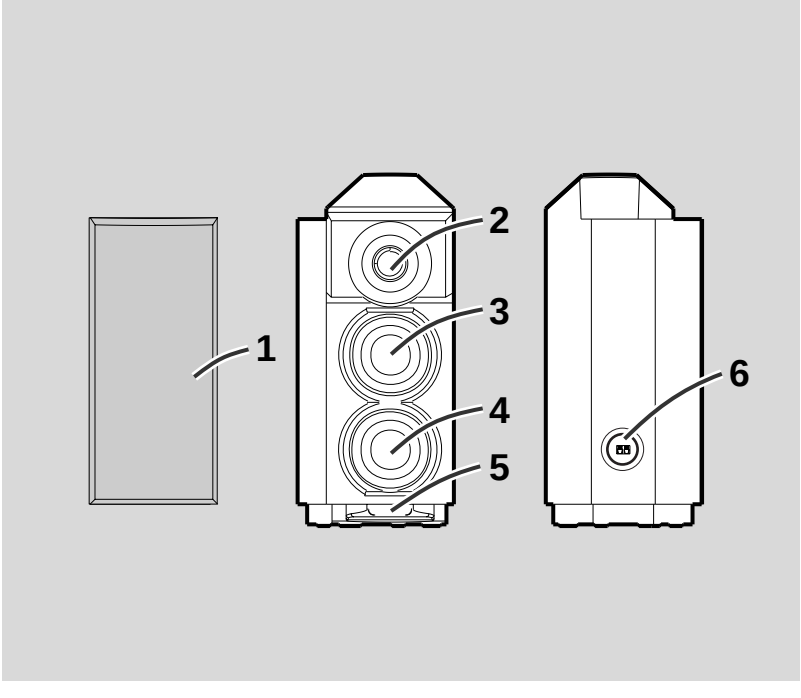
■ Amplifier unit front panel

1. Power Indicator



■ Amplifier unit rear panel

Reference page
1. System Input Sockets 13
2. System Control Socket 13
3. Speaker Terminals 13
4. Cooling Fan
5. AC Input Socket 12

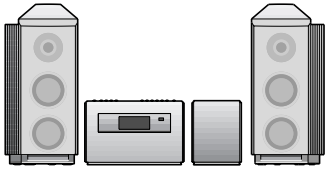


■ Speaker system

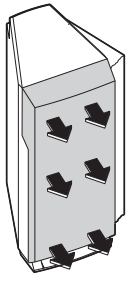
Reference page

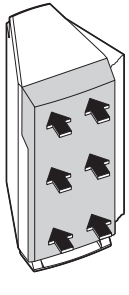
1. Speaker Grille
2. Tweeter
3. Woofer
4. Woofer
5. Bass Reflex Duct
6. Speaker Terminals 13

Placing the speaker system:
The left and right speakers have individual shapes. For best performance, place the speakers according to the diagram below.

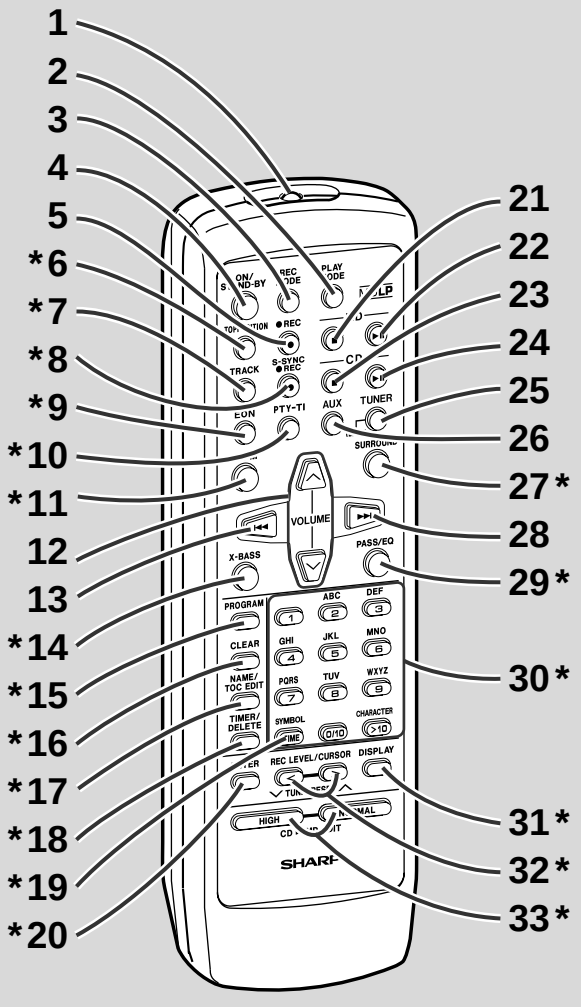


Speaker grilles are removable:
Make sure nothing comes into contact with the speaker diaphragms when you remove the speaker grilles.





Controls and Indicators (continued)



■ Remote control

Reference page

1. Remote Control Transmitter **10**
2. CD/MD Play Mode Select Button
3. MD Record Mode Button
4. On/Stand-by Button
5. MD Record Button
6. Top Position Button **38**
7. Track Edit Button **37**
8. Sound Synchronise Record Button **54**
9. RDS EON Button **27, 31**
10. RDS Programme Type/Traffic Information Search Button **27, 30**
11. RDS ASPM (Auto Station Programme Memory) Button **27**
12. Volume Up or Down Button
13. CD/MD Fast Reverse, Tuning Down Button
14. Extra Bass Button **15**
15. CD/MD Programme Button **24**
16. Clear Button **24**
17. Name/TOC-Edit Button **41**
18. Timer/Delete Button **16, 48**
19. Time Button **19, 22**
20. Enter Button **16**
21. MD Stop Button
22. MD Play/Pause Button
23. CD Stop Button
24. CD Play/Pause Button
25. Tuner (Band) Button
26. Auxiliary Input Button
27. Surround Button **15**
28. CD/MD Fast Forward, Tuning Up Button
29. Preset Equalizer Button **15**
30. Character Input/CD, MD, Tuner Direct Buttons **23, 41**
31. Display Button **19, 22**
32. Recording Level/Cursor/Tuner Preset Button **25, 38, 41**
33. CD/MD Edit Button **35**

Buttons with "*" mark in the illustration can be operated on the remote control only. Other buttons can be operated both the main unit and the remote control.

Remote Control

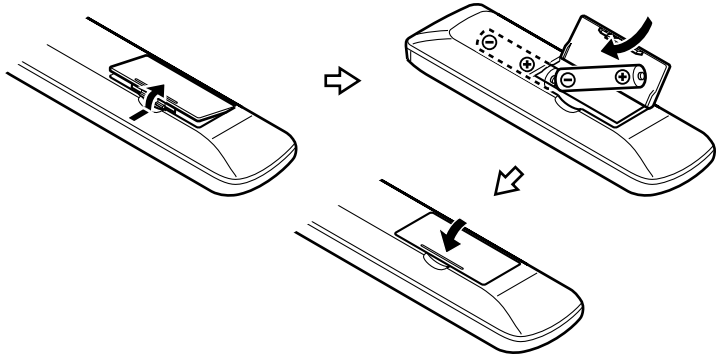
■ Battery installation

1 Open the battery cover.

2 Insert the supplied batteries according to the direction indicated in the battery compartment.

- When inserting or removing the batteries, push them towards the ⊖ battery terminals.

3 Close the battery cover.



Precautions for battery use:

- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:

- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfunction.

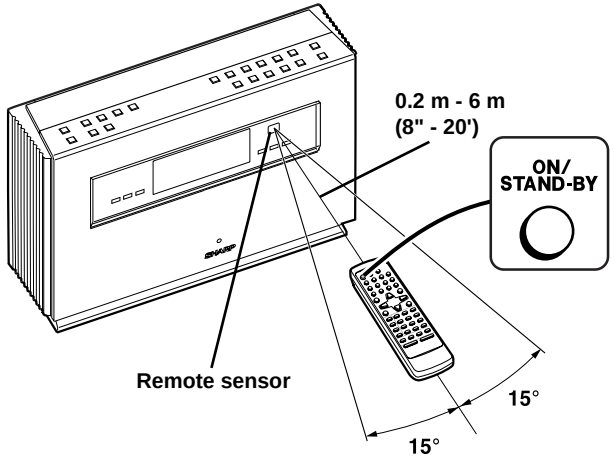
Notes concerning use:

- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the stereo system with a soft cloth.
- Exposing the sensor on the stereo system to strong light may interfere with operation. Change the lighting or the direction of the stereo system.
- Keep the remote control away from moisture, heat, shock, and vibrations.

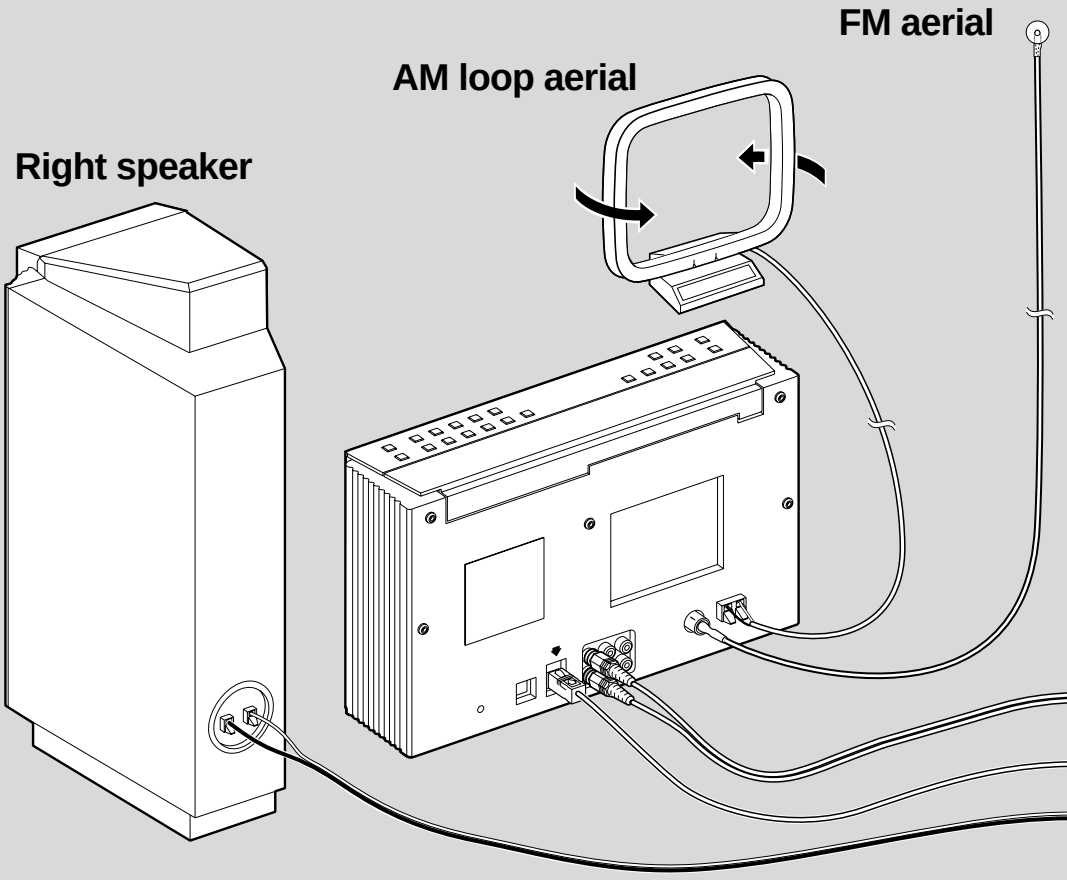
■ Test of the remote control

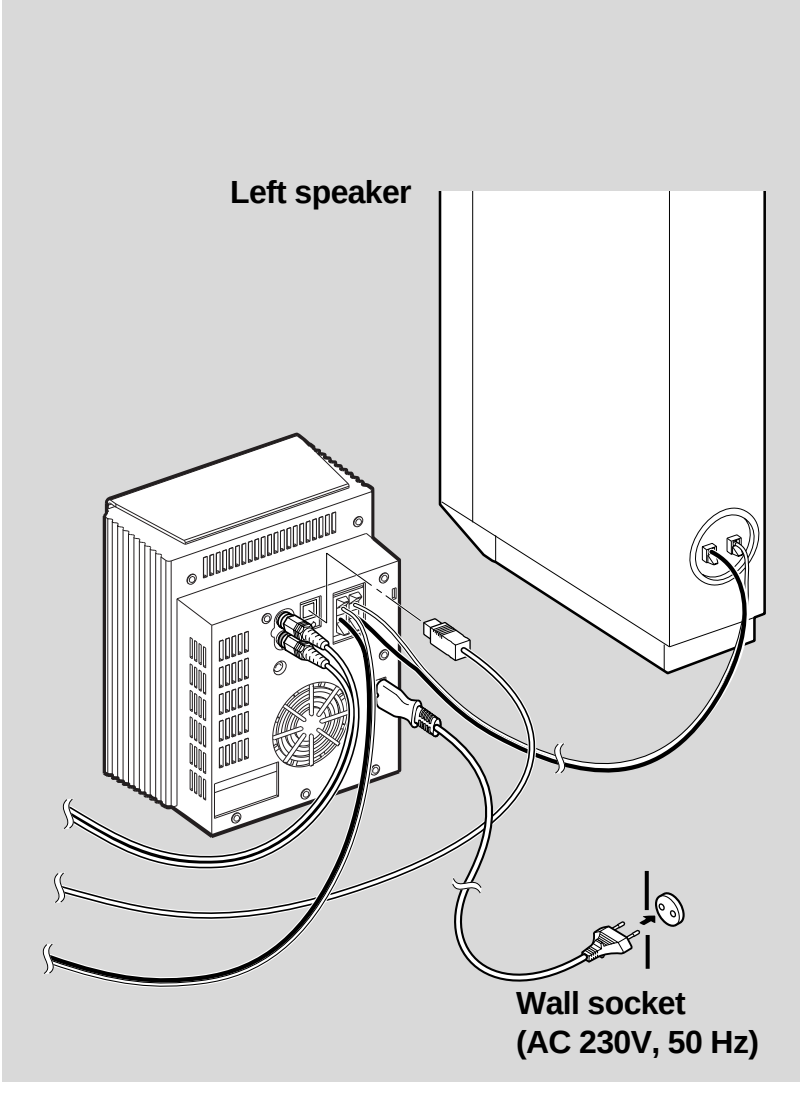
Check the remote control after checking all connections have been made correctly. (See pages 11 - 13.)
Face the remote control directly to the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy the music.



System Connections

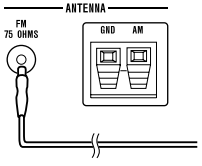

FM aerial
AM loop aerial
Right speaker
Caution:
The SYSTEM CONTROL sockets are for the MD/CD/tuner unit and the amplifier unit of SD-NX10H only.
Do not connect to other equipments.
To the system input socket
To the system control socket
To the speaker terminal (R)



■ Aerial connection

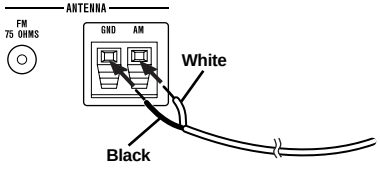
Supplied FM aerial:

Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.



Supplied AM loop aerial:

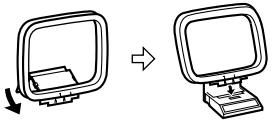
Connect the AM loop aerial wire to the AM and GND terminals. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or wall with screws (not supplied).



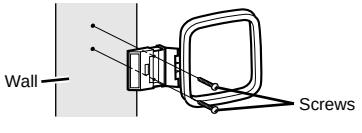
Note:
Keep the FM/AM aerial away from the amplifier unit, MD/CD/tuner unit, AC power lead, and speaker lead. If they are too close, the noise may be heard.

Installing the AM loop aerial:

< Assembling >



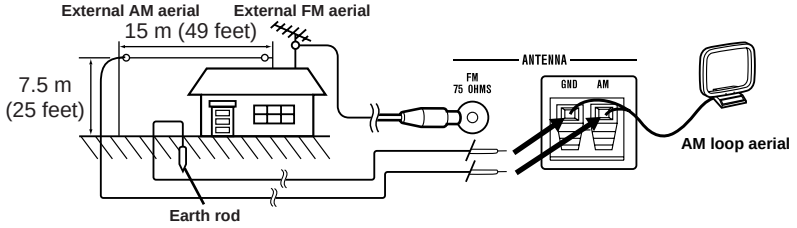
< Attaching to the wall >



System Connections (continued)

■ External FM or AM aerial

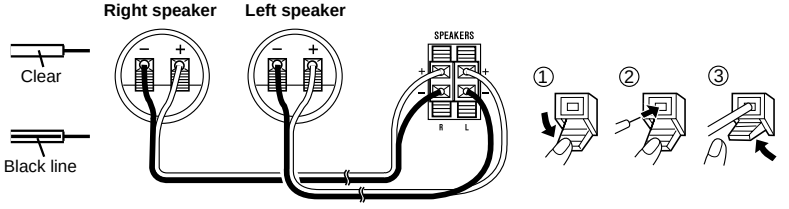
Use an external FM or AM aerial if you require better reception. Consult your dealer.



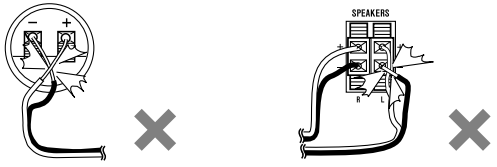
Notes:
- When an external FM aerial is used, disconnect the supplied FM aerial wire from the FM 75 OHMS socket.
- When using an external AM aerial, be sure to keep the wire of the AM loop aerial connected.

■ Speaker connection

Connect the wire with the black line to the (-) and transparent one to the (+) .



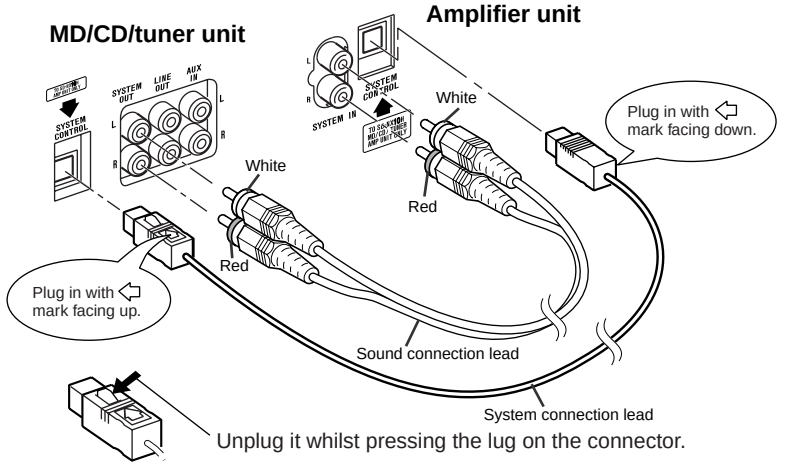
Caution:
- **Connect the speaker wires to the speakers first, then to the unit.**
- Use speakers with an impedance of 6 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**



- Do not stand or sit on the speakers. You may be injured.

■ Connecting MD/CD/tuner unit and amplifier unit

Connect the tuner unit and the amplifier unit using the sound connection lead and the system connection lead included with this unit.



■ Connecting the AC power lead

After checking all the connections have been made correctly, plug the unit into the mains. If you plug the unit first, the unit will enter the demonstration mode.

Note:
Unplug the unit if it will not be used for a prolonged period of time.

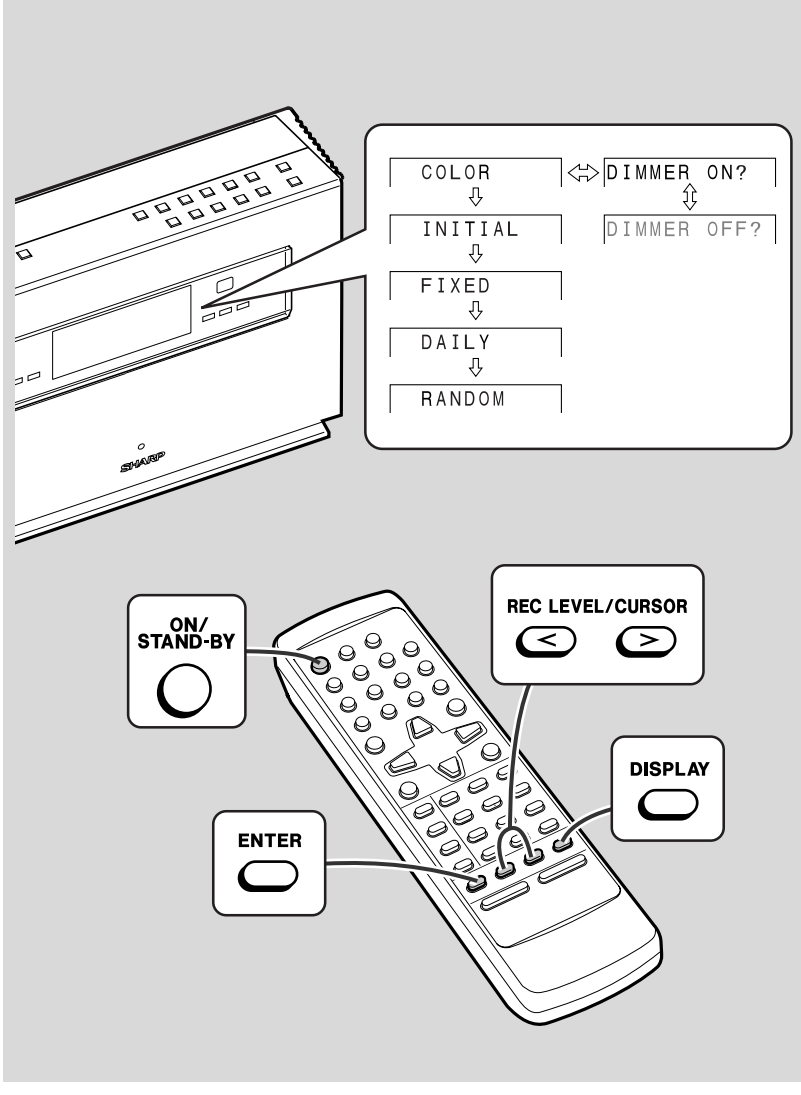
■ Demonstration mode

The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll.

DEMO ON

To cancel the demonstration mode:
When the unit is in the power stand-by mode (demonstration mode), press the AUX (DEMO) button. The unit will enter the low power consumption mode.

To return to the demonstration mode:
When the unit is in the power stand-by mode, press the AUX (DEMO) button again.



■ You can select and change to the colour you like from 7 different colours.

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the DISPLAY button for 2 seconds or more.**

3 **Press the REC LEVEL/CURSOR < or > button to select "COLOR".**

4 **Press the ENTER button.**

5 **Press the REC LEVEL/CURSOR < or > button.**

INITIAL	The colour changes automatically along with the operation.
FIXED	You can select a colour you like.
DAILY	The colour changes according to the day of the week.
RANDOM	The colour changes at random.

6 **Press the ENTER button.**

7 **When FIXED or DAILY is selected:**

- Press ENTER button after selecting your favourite colour with the REC LEVEL/CURSOR < or > button.
- You can select the colour you like from 7 colours (COLOR 1 to COLOR 7).

■ To change the display illumination brightness

To dim:

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Hold the DISPLAY button down for 2 seconds or more.**

3 **Press the REC LEVEL/CURSOR < or > button to select "DIMMER ON ?".**

4 **Press the ENTER button.**

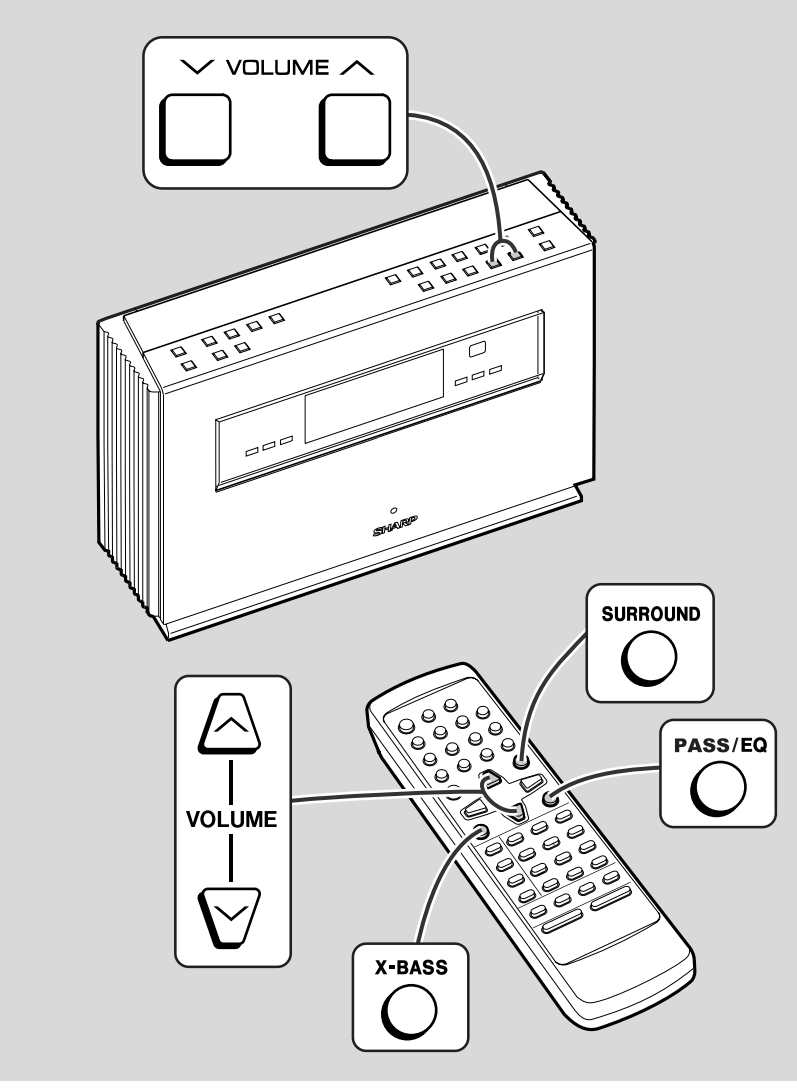
- The light goes out and characters are dimmed.

To brighten:

1 **Hold the DISPLAY button down for 2 seconds or more.**

2 **Press the ENTER button.**

Sound Control



■ Volume control

Press the VOLUME ∧ button to increase the volume and the VOLUME ∨ button for decreasing.

VOLUME 20

■ Bass control

When the X-BASS button is pressed, the unit will enter the extra bass mode which emphasises the bass frequencies. To cancel the extra bass mode, press the X-BASS button.

X-BASS ON ⇔ X-BASS OFF

Bass is emphasised. Cancelled.

■ Surround

Press the SURROUND button to allow you to enjoy music that seems to surround you.
"SURROUND" will appear.
Press the SURROUND button again to cancel the surround mode.
"SURROUND" will go out.

1 2:13 (SURROUND) ⇔ 1 2:13

■ Equalizer

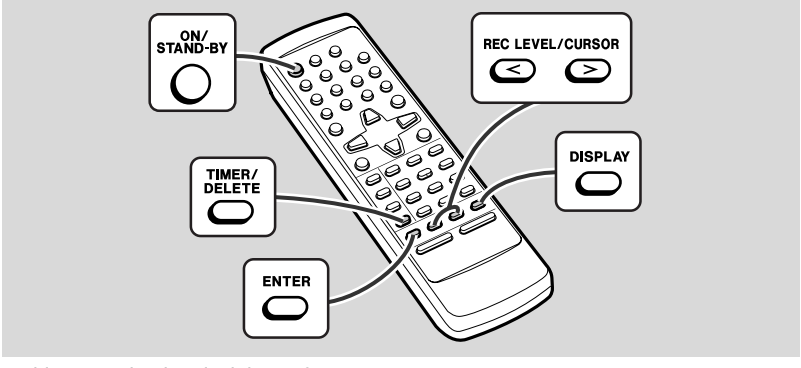
Press the PASS/EQ button repeatedly until the desired sound mode appears.

BY-PASS → HEAVY
The sound is not modified. Bass and treble are emphasised.

↑ ↓

SOFT ← VOCAL
Treble is reduced. Vocals (midrange tones) are emphasised.

Setting the Clock



In this example, the clock is set for 9:30 15. 02 '01 .

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TIMER/DELETE button.**

3 **Within 10 seconds, press the REC LEVEL/CURSOR < or > button to select the "TIME ADJUST".**

TIME ADJUST

4 **Within 10 seconds, press the ENTER button.**

5 **Press the REC LEVEL/CURSOR < or > button to adjust the year, and then press the ENTER button.**

01.01'01

6 **Press the REC LEVEL/CURSOR < or > button to adjust the month, and then press the ENTER button.**

01.02'01

7 **Press the REC LEVEL/CURSOR < or > button to adjust the date, and then press the ENTER button.**

15.02'01

8 **Press the REC LEVEL/CURSOR < or > button to adjust the hour, and then press the ENTER button.**

9:00

9 **Press the REC LEVEL/CURSOR < or > button to adjust the minutes, and then press the ENTER button.**

9:30

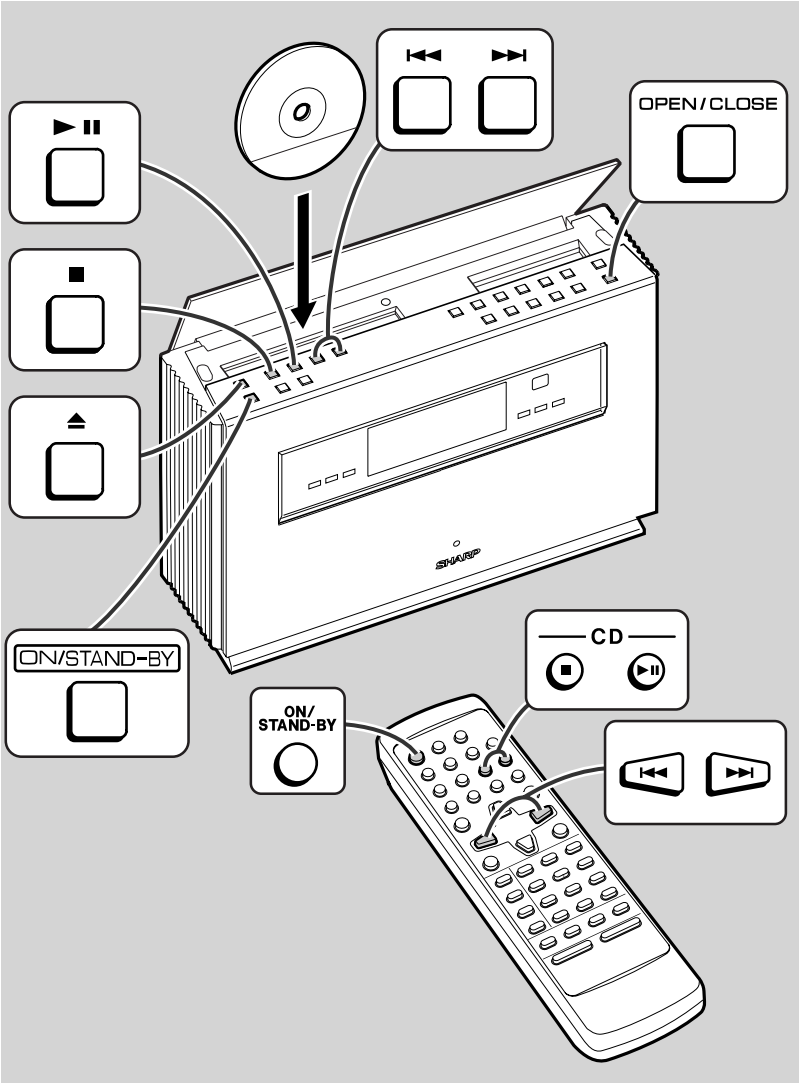
- The hour will not advance even if minutes advance from "59" to "00".
- The clock starts from "0" second. (Seconds are not displayed.) The time display will disappear after a few seconds.

To confirm the time display:
[When the unit is in the stand-by mode]
Press the DISPLAY button on the remote control.
The time display will appear for about 5 seconds.
[When the power is on]
Press the TIMER/DELETE button.
Within 10 seconds, press the REC LEVEL/CURSOR < or > button.
The time display will appear for about 10 seconds.

Note:
The clock setting will be cleared when the unit is unplugged or the power failure occurs.

To reset the clock:
Perform "Setting the Clock" from the beginning.

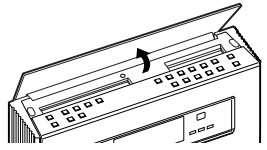
Listening to a CD



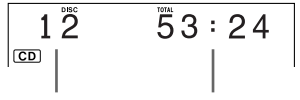
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CD ■ button.**

3 **Press the OPEN/CLOSE button to open the CD/MD cover.**



4 **Load a CD into the CD compartment with the label side facing toward you.**



Total number of tracks Total playing time

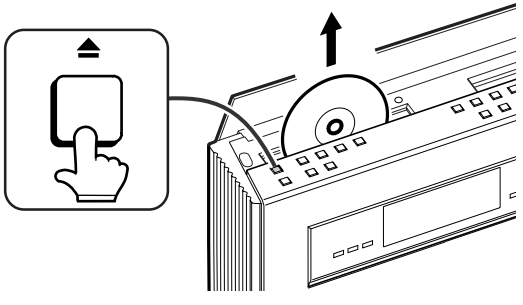
5 **Press the CD ▶II button to start playback.**

- The CD/MD cover will be closed.
- When the last track has finished playing, the CD player will stop automatically.

To interrupt playback:
Press the CD ▶II button.
To resume playback from the same point, press the CD ▶II button again.

To stop playback:
Press the CD ■ button.

To remove the CD:
Whilst in the stop mode, press the CD ⏏ button.
Notes:
- When reloading a half-ejected CD, take it out and insert it again.
- For an 8cm CD, it will come out a little more if the CD ⏏ button is pressed twice.
- If the recorded side of the CD is touched or becomes dirty, refer to "Care of compact discs" (page 3) and clean it.



After use:
- Press the OPEN/CLOSE button and close the CD/MD cover.
- When the unit enters the stand-by mode, the opened CD/MD cover will be closed automatically.

Caution:
- **Be careful not to jam your fingers with the CD/MD cover when opening and closing it.**
- **Do not stop or move the CD/MD cover manually. It may cause malfunctions to the unit.**
- **CD and MD insertion slots are facing upward. Be careful not to drop coins or the like into them. Also to keep away the dust, close the CD/MD cover when the unit is not used.**
- Subjecting the unit to shock or vibration may cause mistracking.
- Playing certain compact discs at a high volume may cause mistracking. In this case, listen at a lower volume.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
- If an error message is displayed during CD operation, see "Error Messages" on page 56.

■ To locate the beginning of a track

To move to the beginning of the next track:

Press the ⏭ button during playback.

- You can skip to any track by pressing the ⏭ button repeatedly until the desired track number appears.

To restart the track being played:

Press the ⏮ button during playback.

- You can skip to any track by pressing the ⏮ button repeatedly until the desired track number appears.

■ To locate the desired portion

For audible fast forward:

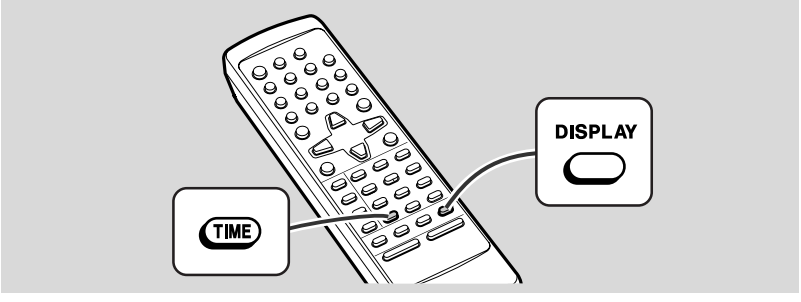
Press and hold down the ⏭ button during playback.

For audible fast reverse:

Press and hold down the ⏮ button during playback.

Notes:
- Normal playback will resume when the ⏮ or ⏭ button is released.
- When the end of the last track is reached during fast forward, "END" will appear in the display and CD operation will be paused. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.

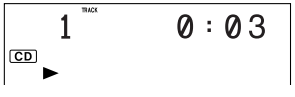
Listening to a CD (continued)



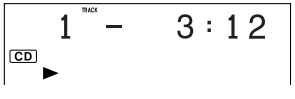
■ Switching the time display

Each time the TIME button on the remote control is pressed during playback, the display will change.

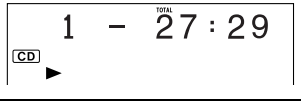
The elapsed playing time for the current track will be displayed.



The remaining playing time for the current track will be displayed.



The total remaining playing time for the disc will be displayed.



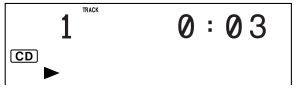
Notes:

- During random play, the total remaining playing time will not be displayed.
- Depending on the CD, the playing time display may not match the total playing time which is indicated on the CD jacket, as the time between tracks is not included.

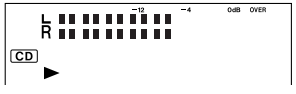
■ Switching to the level meter

Each time the DISPLAY button on the remote control is pressed during playback, the display will change.

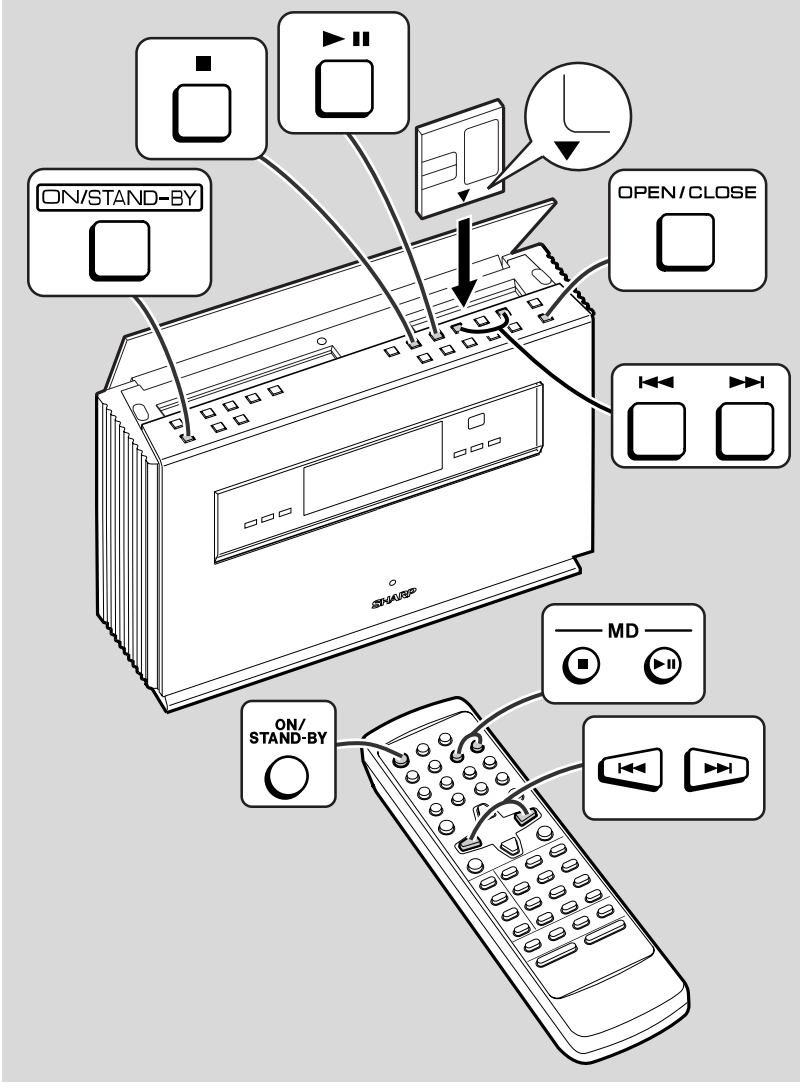
The elapsed playing time for the current track will be displayed.



The level meter will be displayed.



Listening to a MiniDisc

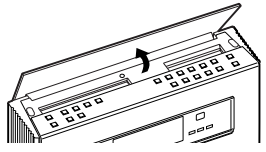


A track can be played in the mode it is recorded: monaural or 2 times or 4 times long recording (stereo) mode.

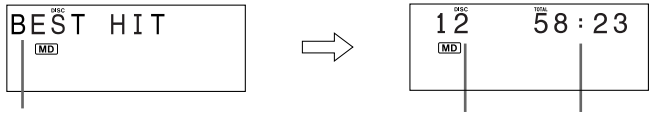
1 Press the ON/STAND-BY button to turn the power on.

2 Press the MD ■ button.

3 Press the OPEN/CLOSE button to open the CD/MD cover.



4 Load a MiniDisc into the MD compartment with the label side facing toward you.



Disc name

Total number of tracks

Total playing time

- If the MiniDisc is loaded in a wrong way, "?MD DISC" or "Can't READ" appears on the display. In that case, press the MD ⏏ button.
- The disc name will be displayed only when it has been programmed, and then the total number of tracks and the total playing time on the MiniDisc will be displayed.

5 Press the MD ▶II button to start playback.

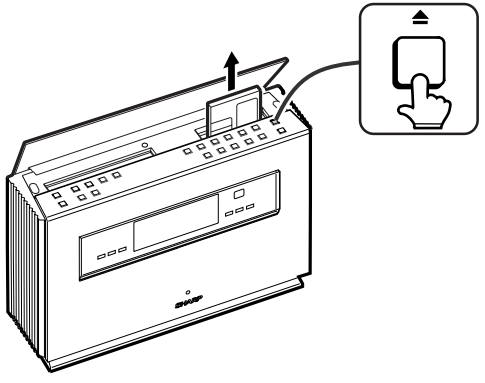
- If the MiniDisc has a track name, it will appear and scroll across the display. Then, the elapsed playing time will appear.
- If the MiniDisc has no track names, the elapsed playing time will appear.
- When the last track has finished playing, the MD player will stop automatically.

Listening to a MiniDisc (continued)

To interrupt playback:
Press the MD ▶II button.
To resume playback from the same point, press the MD ▶II button again.

To stop playback:
Press the MD ■ button.

To remove a MiniDisc:
Whilst in the stop mode, press the MD ⏏ button.



Caution:
- **Be careful not to jam your fingers with the CD/MD cover when opening and closing it.**
- **Do not stop or move the CD/MD cover manually. It may cause malfunctions to the unit.**
- **CD and MD insertion slots are facing upward. Be careful not to drop coins or the like into them. Also to keep away the dust, close the CD/MD cover when the unit is not used.**
- When loading a MD, make sure to turn the power on. If the MD is inserted forcibly without turning the power on, it may cause malfunctions.
- When transporting the unit, take out the MD. It may be jammed inside and cause malfunctions.
- If TV or radio interference occurs during MiniDisc operation, move the unit away from the TV or radio.
- Although MiniDiscs will not normally skip due to vibration, you may hear skipping in the sound if there is continuous vibration. If the volume is turned up too high, sound skipping may occur depending on the contents of the MiniDisc. If this happens, turn the volume down and the skipping should stop.
- If an error message is displayed during MiniDisc operation, see "Error Messages" on page 56.

■ To locate the beginning of a track

To move to the beginning of the next track:
Press the ▶▶I button during playback.
● You can skip to any track by pressing the ▶▶I button repeatedly until the desired track number appears.
To restart the track being played:
Press the I◀◀ button during playback.
● You can skip to any track by pressing the I◀◀ button repeatedly until the desired track number appears.

■ To locate the desired portion

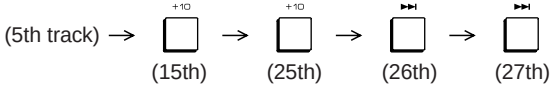
For audible fast forward:
Press and hold down the ▶▶I button during playback.
For audible fast reverse:
Press and hold down the I◀◀ button during playback.

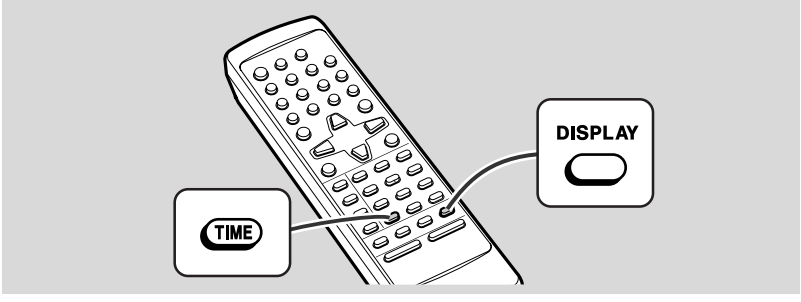
Notes:
- Normal playback will resume when the I◀◀ or ▶▶I button is released.
- When the end of the last track is reached during fast forward, "END" will appear in the display and MiniDisc operation will be paused. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.

■ To select a track more than 10 tracks ahead

Whilst in the stop mode or playback:
1 Press the +10 button to forward by 10 tracks.
2 Press the I◀◀ or ▶▶I button to move forward or backward by 1 track.

For example, to move to the 27th track when listening to the 5th track:

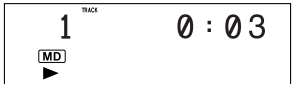




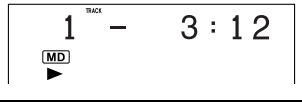
■ Switching the time display

Each time the TIME button on the remote control is pressed during playback, the display will change.

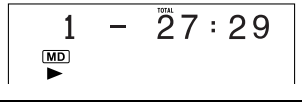
The elapsed playing time for the current track will be displayed.



The remaining playing time for the current track will be displayed.



The total remaining playing time for the disc will be displayed.



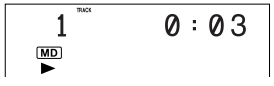
Notes:

- During random play, the total remaining playing time will not be displayed.
- Depending on the MiniDisc, the playing time display may not match the total playing time which is indicated on the MiniDisc jacket, as the time between tracks is not included.

■ Switching the track name or level meter etc.

Each time the DISPLAY button on the remote control is pressed during playback, the display will change.

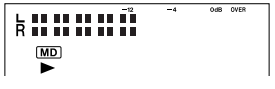
The elapsed playing time for the current track will be displayed.



The track name will be displayed.

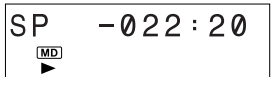
"NO NAME" is displayed if the track is not named.

The level meter is displayed.

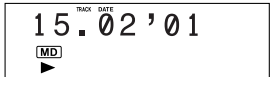


Tracks recorded in monaural is indicated as "M".

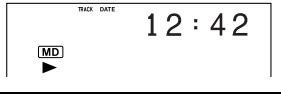
Remaining recording time is displayed.



Date of recording is displayed.



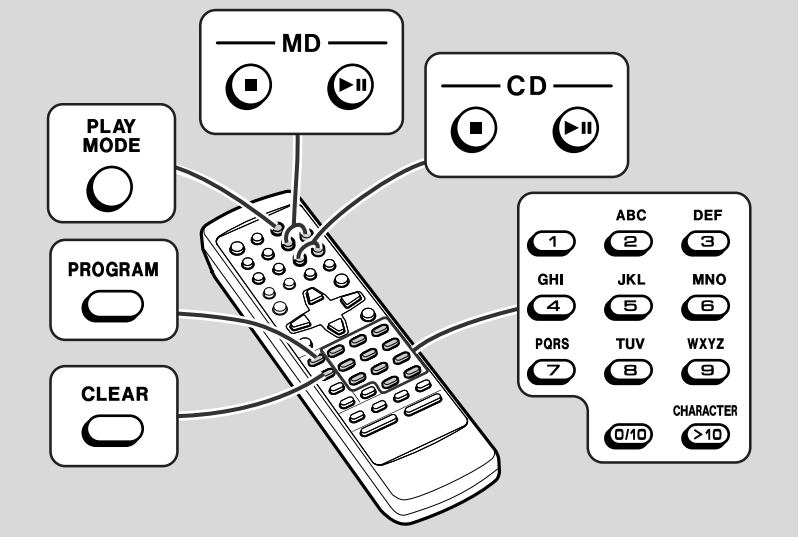
Time of recording is displayed.



Notes:

- When the level meter is displayed, it remains unchanged during playback.
- It returns to normal when the MD is removed.
- The remaining recording time, and the date and the time of recording are not displayed for playback-only MD.

Direct Play



When in the CD or MD mode, press the direct buttons to select the desired tracks.

To select a track between the 11th and 99th tracks:
Select the track after pressing the > 10 button.
A. For example, to choose 28

1 **Press the "> 10" button.**
2 **Press the "2" button.**
3 **Press the "8" button.**

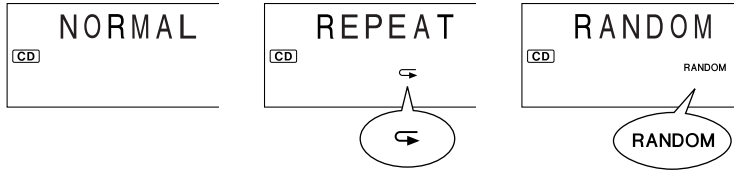
To select a track beyond the 100th track (MD only):
Select the track after pressing the > 10 button twice.
B. For example, to choose 105

1 **Press the "> 10" button twice.**
2 **Press the "1" button.**
3 **Press the "0/10" button.**
4 **Press the "5" button.**

Repeat or Random play

You can select the CD or MD playback mode; "Repeat play", "Random play" and "Normal play".

1 When in the CD or MD mode, press the PLAY MODE button repeatedly to select the playback mode.



2 Press the CD ▶II or MD ▶II button to start playback.

To repeat a programmed sequence:
Perform steps 1 - 5 in the "Programmed Play" section and then select the repeat playback.

Notes:
- You can select the playback mode by pressing the PLAY MODE button on the main unit.
- During programme operation, random play is not possible.
- After using repeat play, be sure to press the ■ button. Otherwise, the disc(s) will play continuously.
- The random play will stop automatically when all tracks are played once. (The same track will not be played back twice.)
- In random play, the CD or MiniDisc player will select and play tracks automatically. (You cannot select the order of the tracks.)

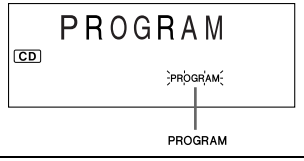
To cancel repeat or random play:
Press the PLAY MODE button repeatedly to select the normal play mode.

Programmed Play

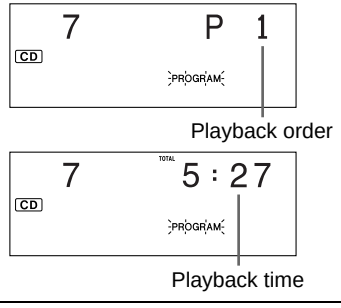
Up to 20 CD tracks or 20 MD tracks can be programmed.
You cannot programme CD and MiniDisc tracks together at the same time.

1 Whilst in the stop mode, press the CD ■ or MD ■ button.

2 Press the PROGRAM button to enter the programming save mode.



3 Press the direct buttons to select the desired track.



4 Repeat step 3 for any other track. Up to 20 tracks can be programmed.

If the total programmed playback time exceeds 400 minutes, "--:--" is displayed. However, it is properly memorised.

5 Press the CD ■ or MD ■ button.

6 Press the CD ►II or MD ►II button to start playback.

To clear the programmed selections:
Press the CLEAR button whilst the "PROGRAM" indicator is flashing.

- Each time the button is pressed, one track will be cleared, beginning with the last track programmed.

To cancel the programmed play mode:
Whilst in the stop mode, press the CLEAR button. The "PROGRAM" indicator will disappear and all the programmed content will be cleared.

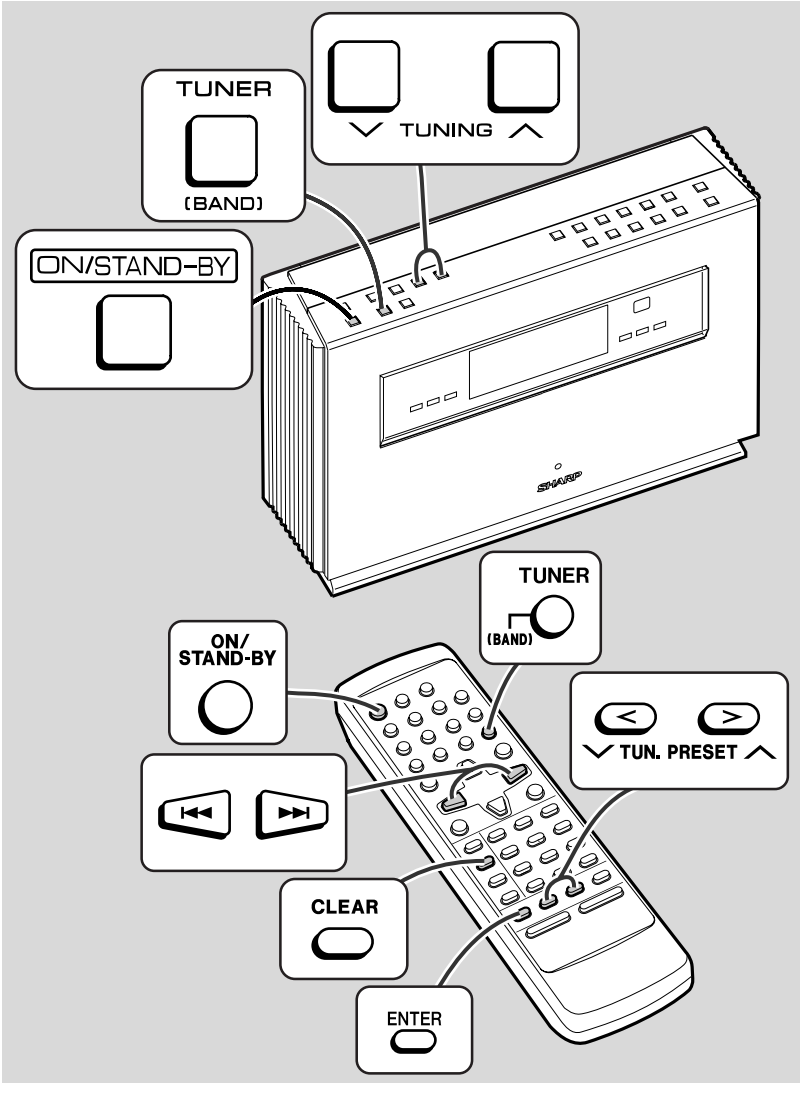
Adding tracks to the programme:
If a programme has been previously stored, the "PROGRAM" indicator will be displayed. Then follow steps 1 - 5 to add tracks. The new tracks will be stored after the last track of the original programme.

To check which tracks are programmed:
Whilst the unit is stopped in the programmed play mode, press the I◄◄ or ►►I button.

Notes:

- Ejecting a CD or MiniDisc automatically cancels the programmed sequence.
- Even if you press the ON/STAND-BY button to enter the stand-by mode or change the function from CD or MD to another function, the programmed selections will not be cleared.
- During programme operation, random play is not possible.

Listening to the Radio



■ Tuning

1 Press the ON/STAND-BY button to turn the power on.

2 Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM STEREO, FM or AM).

3 Press the TUNING ∨ or ∧ button to tune into the desired station.

Manual tuning:

Press the TUNING ∨ or ∧ button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING ∨ or ∧ button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

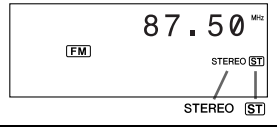
You can tune in to the desired station by pressing the ⏮ or ⏭ button on the remote control.

Notes:

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light. Finally, the station name will appear.
- Full auto tuning can be achieved for RDS stations "ASPM", see page 29.

4 To receive an FM stereo transmission, press the TUNER (BAND) button. The "STEREO" indicator lights up.

- "ST" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the TUNER (BAND) button. The "STEREO" indicator goes out. The reception changes to monaural, and the sound becomes clearer.



After use:
Press the ON/STAND-BY button to enter the stand-by mode.

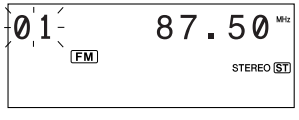
■ Preset tuning

(Remote control operation)
You can store 40 AM and FM stations in memory and recall them at the push of a button.

1 Perform steps 1 - 4 in the "Tuning" section on page 25.

2 Press the ENTER button to enter the preset tuning saving mode.

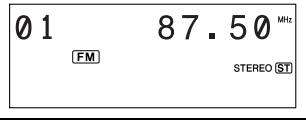
3 Within 5 seconds, press the TUN. PRESET ∨ or ∧ button to select the preset channel number.



- Store the stations in memory, in order, starting with preset channel 1.

4 Within 5 seconds, press the ENTER button to store that station in memory.

- If the preset number indicator goes out before the station is memorised, repeat the operation from step 2.



5 Repeat steps 1 - 4 to set other stations, or to change a preset station.

- When a new station is stored in memory, the station previously memorised will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead disconnection.

■ To recall a memorised station

(Remote control operation)
Press the TUN. PRESET ∨ or ∧ button to select the desired station.

The direct buttons allow you to recall a memorised station.

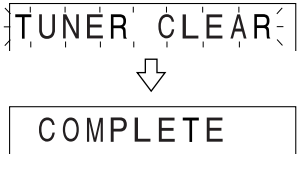
To select a preset station between the 11 and 40:
For example, to choose 28

1. **Press the "> 10" button.**
2. **Press the "2" button.**
3. **Press the "8" button.**

■ To erase all the contents of the preset memory

(Remote control operation)

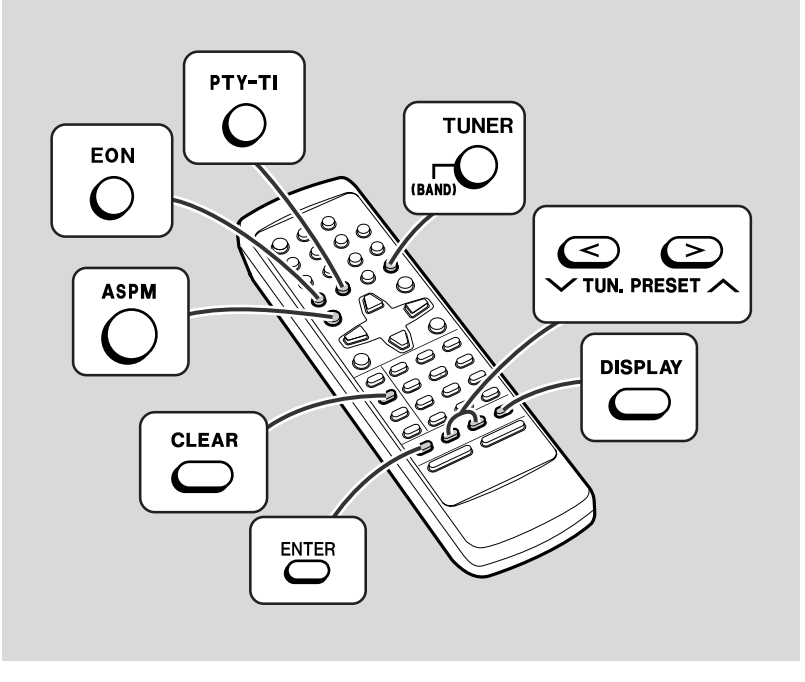
1. Press the TUNER (BAND) button.
2. Hold the CLEAR button down for 3 seconds or more.
3. Press the ENTER button.



Using the Radio Data System (RDS)

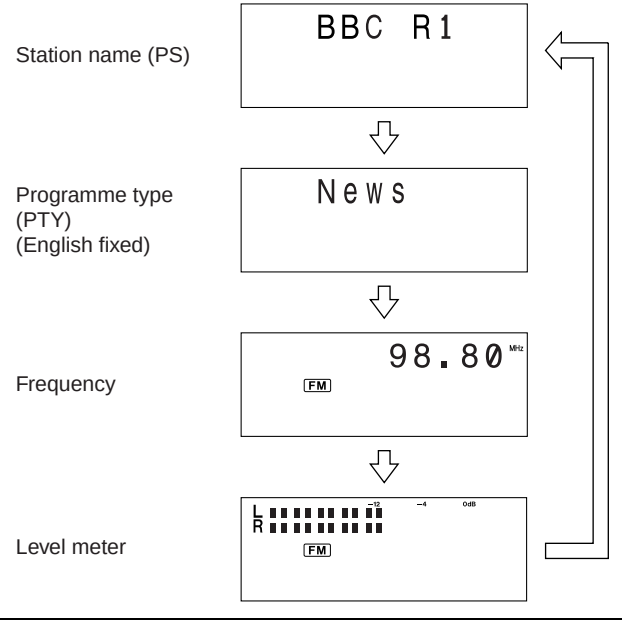
RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sports or music, etc.
When tuned to an RDS station, "RDS" and the station name will be displayed.
"TP" (Traffic Programme) will appear on the display when the received broadcast carries traffic information, and "TA" (Traffic Announcement) will appear whilst a traffic information is on air (see page 33).
"EON" will appear whilst the EON (Enhanced Other Networks information) data is broadcast.
"PTYI" (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is received.

You can control the RDS by using the remote control only.

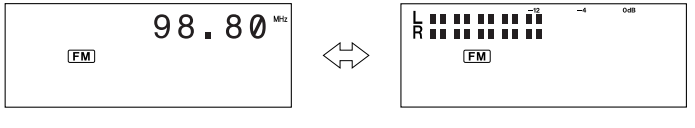


■ Information provided by RDS

Each time the DISPLAY button is pressed, the display will switch as follows:



When you are tuning in to a station other than an RDS station or to an RDS station which sends weak signal, the display will change in the following order:



Frequency Level meter

Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement).
You can search for and receive the following PTY, TP and TA signals.

News	Short accounts of facts, events and publicly expressed views, reportage and actuality.
Affairs	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
Info	Programmes whose purpose is to impart advice in the widest sense.
Sport	Programme concerned with any aspect of sport.
Educate	Programme intended primarily to educate, of which the formal element is fundamental.
Drama	All radio plays and serials.
Culture	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
Science	Programmes about the natural sciences and technology.
Varied	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
Pop M	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
Rock M	Contemporary modern music, usually written and performed by young musicians.
Easy M	Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.
Light M	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
Classics	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.
Other M	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
Weather	Weather reports and forecasts and meteorological information.
Finance	Stock Market reports, commerce, trading, etc.
Children	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.
Social	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
Religion	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
Phone in	Involving members of the public expressing their views either by phone or at a public forum.
Travel	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
Leisure	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
Jazz	Polyphonic, syncopated music characterised by improvisation.
Country	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
Nation M	Current Popular Music of the Nation or Region in that country's language, as opposed to International 'Pop' which is usually US or UK inspired and in English.
Oldies	Music from the so-called "golden age" of popular music.
Folk M	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
Document	Programme concerned with factual matters, presented in an investigative style.
TEST	Broadcast when testing emergency broadcast equipment or receivers.
Alarm !	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
None	No programme type (receive only).
TP	Broadcasts which carry traffic announcements.
TA	Traffic announcements are being broadcast.

Note:
When you select a programme in the EON stand-by mode, the unit will display "TI" instead of "TA".

Using the Radio Data System (RDS) (continued)

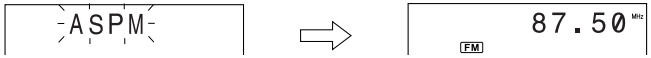
■ Using the Auto Station Programme Memory (ASPM)

Whilst in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 40 stations can be stored.
If you have already stored some stations in memory, the number of new stations you can store will be less.

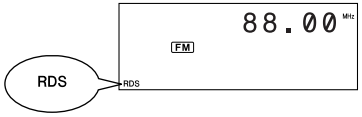
1 Press the TUNER (BAND) button to select the FM band.

2 Press and hold down the ASPM button for at least 3 seconds.

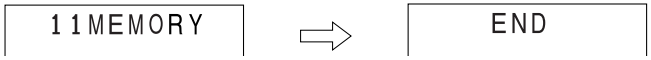
After "ASPM" has flashed for about 4 seconds, scanning will start (87.50 - 108.00 MHz).



When an RDS station is found, "RDS" will appear for a short time and the station will be stored in memory.



After scanning, the number of stations stored in memory will be displayed for 4 seconds, and then "END" will appear for 4 seconds.

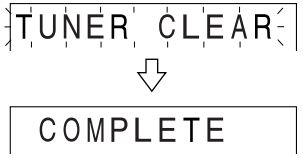


To stop the ASPM operation before it is complete:
Press the ASPM button whilst it is scanning for stations.
The stations which are already stored in memory will be kept there.

Notes:
- If the same station is broadcasting on different frequencies, the strongest frequency will be stored in memory.
- Any station which has the same frequency as the one stored in memory will not be stored.
- If 40 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the preset memory.
- If the RDS signals are very weak, station names may not be stored in memory.

To erase all of the contents of preset memory:

1 Press the TUNER (BAND) button.
2 Hold the CLEAR button down for 3 seconds or more.
3 Press the ENTER button.



To store a station name again if the wrong name was stored in memory:
It may be impossible to store station names in memory using the ASPM function if there is lots of noise or if the signal is too weak. In this case, perform as follows.

1 Press the TUN. PRESET ∨ or ∧ button to check whether the names are correct.
2 If you find a wrong name during receiving the station. Wait until the correct name will be displayed. And then press the ENTER button.
3 Within 5 seconds, press the TUN. PRESET ∨ or ∧ button to display the preset channel to be corrected again.
4 Within 5 seconds, press the ENTER button.
- The new station name has been stored in memory correctly.

Notes:
- The same station name can be stored in different channels.
- In a certain area or during certain time periods, the station names may temporarily be different.

■ To recall stations in memory

To specify programme types and select stations (PTY search):
You can search a station by specifying the programme type (news, sports, traffic programme, etc. ... see page 28) from the stations in memory.

1 Press the TUNER (BAND) button to select the FM band.

2 Press the PTY-TI button.

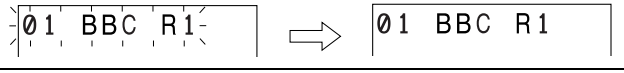
- "PTY TI" and "SELECT" will appear alternately for about 6 seconds.

3 Within 6 seconds, press the TUN. PRESET ∨ or ∧ button to select the programme type you want.

- Each time the button is pressed, the programme type will appear. If the button is held down for more than 0.5 seconds, the programme type will appear continuously.

4 Whilst the selected programme type is flashing (within 4 seconds), press the ENTER button.

- After the selected programme type has been lit for 2 seconds, "SEARCH" will appear, and the search operation will start.

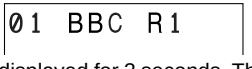


Notes:
- If the display has stopped flashing, start again from step 2. If the unit finds out a desired programme type, corresponding the station name will flash for 10 seconds and remain lit.
- If you want to listen to the same programmed type of another station, press the PTY-TI button whilst the channel number and station name are flashing. The unit will look for the next station.
- If no station can be found, "NOT FOUND" will appear for 4 seconds.

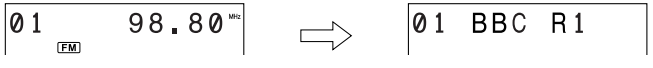
If you select the traffic programme:
If you select the traffic programme (TP) in step 4, "TP" will appear. (This does not mean that you can listen to the traffic information at that time.)
When a traffic information is broadcast, "TA" will appear.

To specify station names and select stations manually:
You can select a station by specifying the name (BBC R1, BBC R2, etc.) from the stations stored in memory.
Before starting this operation, you must store one or more station names in memory.

1 Press the TUNER (BAND) button to select the FM band.
2 Press the TUN. PRESET ∨ or ∧ button to select the desired station.



3 The station name will be displayed for 3 seconds. Then the display will change as follows.



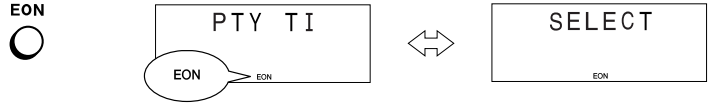
Using the Radio Data System (RDS) (continued)

■ To automatically play the desired programme (EON-PTY)

When the desired type of programme is broadcast, the radio switches to it automatically.

1 Tune in to an RDS station (when a station name is displayed).

2 Press the EON button when "EON" appears.

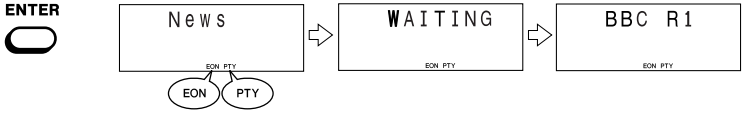


- "PTY TI" and "SELECT" will appear alternately for about 6 seconds.
- If the EON button is pressed when "EON" is not displayed, "NO EON" will appear for 5 seconds to indicate that the unit cannot enter the EON stand-by mode.

3 Whilst they are displayed, select the desired programme type by pressing the TUN. PRESET ∨ or ∧ button.

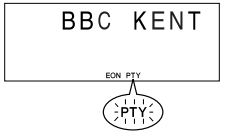
- The selected programme type will flash.

4 Within 4 seconds, press the ENTER button.



- The selected programme type and "WAITING" will be displayed for 2 seconds each.
- "PTY" will appear, and the unit will enter the EON-PTY stand-by mode.

5 When the specified programme starts on an ON (other network) station, the unit will automatically switch to the station and "PTY" will flash.



6 When the programme is over, the unit will automatically return to the original station.

Checking the stand-by mode setting:
When in the EON stand-by mode, press the EON button. ("Programme type" → "WAITING")

To cancel the EON stand-by mode:
When in the EON stand-by mode, press the EON button. Within 4 seconds, press it again. ("PTY" will go out.)

About the PTYI (Dynamic PTY Indicator):
"PTYI" (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is received. Dynamic PTY indicates that the PTY for the station tuned in, or the PTY referenced in the EON data, is assessed whenever the programme changes and may be changed.

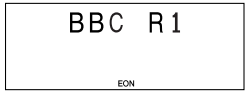
PTYI	Meaning
Lights up	Tuned in to a dynamic PTY station.
Goes out	Tuned in to a static PTY.

- When "PTYI" appears, press the DISPLAY button to check the type of the current programme.

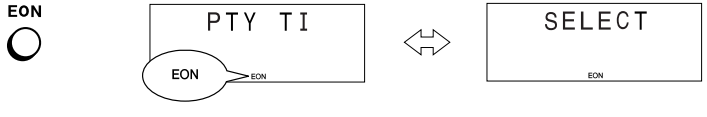
■ To automatically play the traffic information (EON-TI)

When the traffic information is broadcast, the radio switches to it automatically.

1 Tune in to an RDS station (when a station name is displayed).



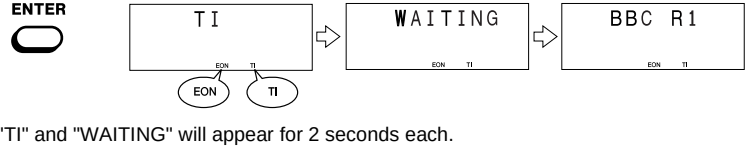
2 Press the EON button when "EON" appears.



- "PTY TI" and "SELECT" will appear alternately for about 6 seconds.
- If the EON button is pressed when "EON" is not displayed, "NO EON" will appear for 5 seconds to indicate that the unit cannot enter the EON stand-by mode.

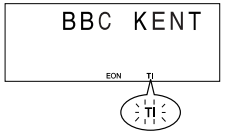
3 Whilst they are displayed, select the TI (Traffic Information) by pressing the TUN. PRESET ∨ or ∧ button.

4 Within 4 seconds, press the ENTER button.



- "TI" and "WAITING" will appear for 2 seconds each.
- "TI" will appear, and the unit will enter the EON-TI stand-by mode.

5 When a TA specified starts on an ON (other network) station, the unit will automatically switch to that station, and "TI" will flash.



6 When the traffic announcement is over, the unit will automatically return to the original station you were tuned to.

Checking the stand-by mode setting:
When in the EON stand-by mode, press the EON button. ("TI" → "WAITING")

To cancel the EON stand-by mode:
When in the EON stand-by mode, press the EON button. Within 4 seconds, press it again. ("TI" will go out.)

Using the Radio Data System (RDS) (continued)

■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:

- "PS", "NO PS" and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal it too weak, information like the station name may not be displayed.
- "NO PS" or "NO PTY" will flash for about 5 seconds, and then the frequency will be displayed.

About the "TP" and "TA" indicators:

"TP"	"TA"	Meaning
Not lit	Not lit	Does not carry traffic announcements nor does it refer, via EON, to a programme that does.
Not lit	Lit	Carries EON information about another programme which gives traffic information.
Lit	Not lit	Carries traffic announcements but not at present and may also carry EON information about other traffic announcements.
Lit	Lit	A traffic information is currently on air.

In the following cases, the EON stand-by mode will be cancelled.

- When you press the ON/STAND-BY button to enter the stand-by mode.
- When the unit is switched to another band in the EON stand-by mode.
- When you change the FM station whilst in the EON stand-by mode.
- When a preset call is made.

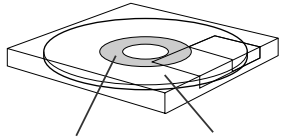
Notes:

- Whilst the same programme as the specified PTY (or TA) is being broadcast, the unit will not switch to an ON (other network) station.
- If there are more than two other network stations, compare the strength of signal and tune in to the station with the strongest signal (EON-AF). If other network station has been stored in the preset channel memory, the unit will switch to that channel.
- If you want to leave an ON (other network) station tuned in by the EON and return to the station you were receiving, press the EON button.
- After the unit returns to the original station, the stand-by mode will still be active. (The "TI" or "PTY" will remain lit.)
- The unit does not switch between ON stations. It returns to the original station.
- If there is any problem with the ON station the unit switched to, "WEAK SIG" will appear and the unit will return to the original station.
- If the signal from the ON station the unit switched to is very weak, the unit will search for another station with the strongest signal. However, if the signals from all stations are weak or not good (due to electrical noise), the unit displays "WEAK SIG" and returns to the original station.

Before Recording to a MiniDisc

■Disc writing (TOC)

The TOC (Table of Contents) is information on track numbers and recording areas to allow the unit to recognise musical selections or sounds. The entire MiniDisc is controlled depending on this TOC, which enables the unit to find the beginning of a track quickly or to automatically record in a vacant area.



Area for TOC (recording track numbers, track names, etc.)

Area for recording the sound

When you start recording or editing, "TOC" will appear on the display.
This indicates that information in the TOC is now being changed according to the recording or editing being performed. (The changed TOC is not yet recorded on the MiniDisc at this time.)

The TOC is recorded when
- You stop recording.
- You switch to another input source.
- You eject the MiniDisc.
- You set the unit to the stand-by mode.

Do NOT unplug the power lead whilst the TOC is being recorded ("TOC" is flashing) and do NOT impart shock to the unit. Otherwise, TOC will not be correctly recorded, and consequently proper playback may not be possible.

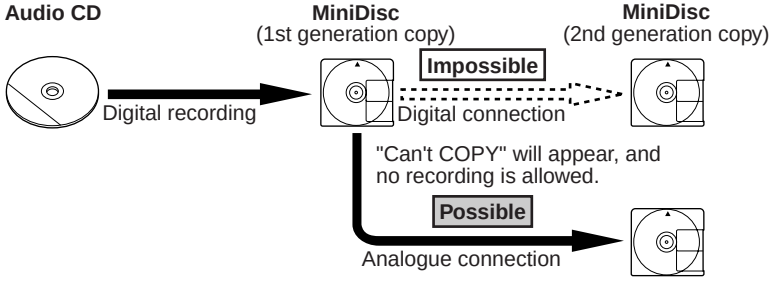
Recordings cannot be made in the following situations.
- If you try recording on a playback-only MiniDisc (commercially available music MiniDisc).
- If a MiniDisc is protected against accidental erasure. (See page 55.)
- If there is no more recording time left on the disc. (See page 56.)
- When the "TOC FULL" message appears. (See page 56.)
- If a disc's TOC has been damaged.

■Sampling rate converter

This system is equipped with a sampling rate converter, which automatically converts the sampling frequencies of the connected digital tuners or DAT decks (32 kHz, 48 kHz) to 44.1 kHz. You can digitally record from equipment with different sampling frequencies.

■Serial Copy Management System (SCMS)

This player is equipped with a digital copy prevention mechanism which complies with the SCMS. The SCMS limits the production of digital copies to one generation for copyright protection. If a digital copy (first generation copy) is made from a copyright-protected digital source (audio CD or the like), no further digital copying (from the second generation) is allowed. The SCMS does not affect analogue recording.



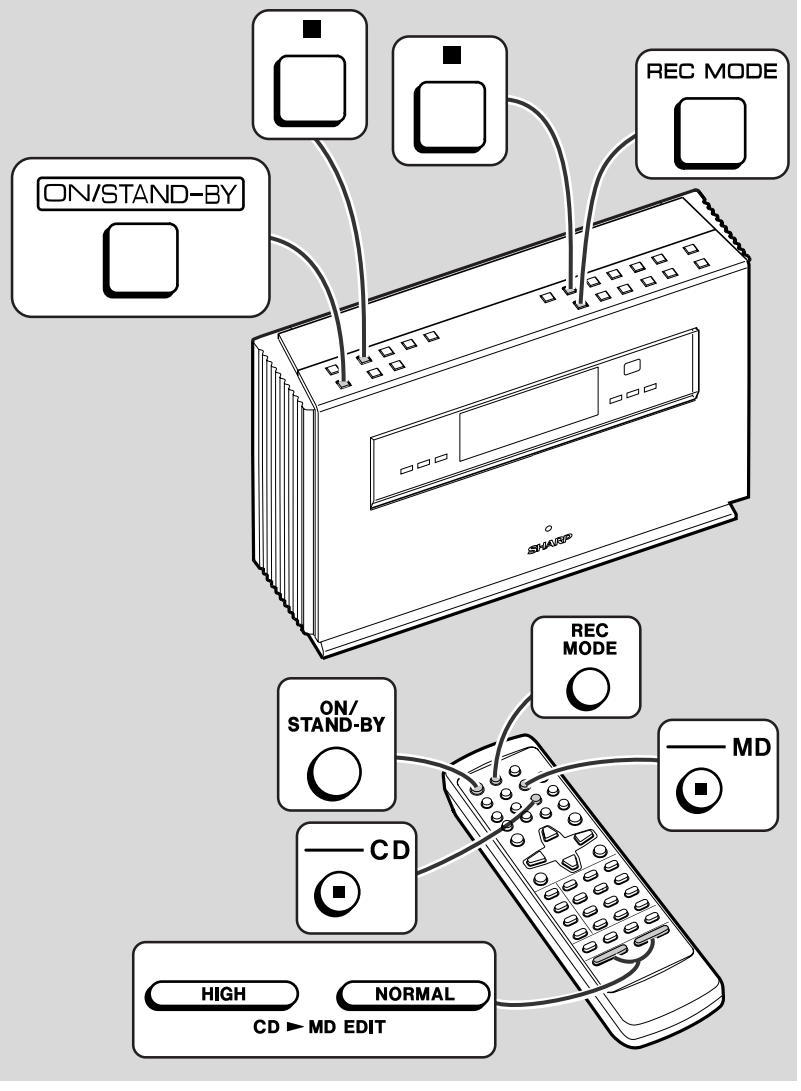
■Notes for recording

- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.
- The VOLUME, SURROUND, X-BASS and PASS/EQ controls can be adjusted with no effect to the recorded signal (Variable Sound Monitor).

■About ATRAC

The ATRAC (Adaptive TRansform Acoustic Coding) system compresses the sound data into 1/5 by cutting out the inaudible sound. Since the sound is selected based on psychoacoustics masking, the sound quality is not impaired.
This unit is equipped with the ATRAC3 compressing system that can reduce the sound data to 1/10 or 1/20 of it's original size.
By employing this system, 2 times and 4 times long recording is enabled in stereo mode.

Recording to a MiniDisc from a CD



1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CD ■ button and load the desired CD.**

3 **Load a recordable MiniDisc into the MD compartment.**

4 **Press the REC MODE button to select the recording mode.**

Stereo recording	SP	Monaural recording	MONO
2 times long recording (stereo)	LP2	4 times long recording (stereo)	LP4

Indication	Recording mode	Recording (to record on 80-minute MD)
SP	Stereo recording	Maximum 80 minutes
LP2	2 times long recording (stereo)	Maximum 160 minutes
LP4	4 times long recording (stereo)	Maximum 320 minutes
MONO	Monaural recording	Maximum 160 minutes

- The recording mode cannot be changed whilst recording.
- The recording mode remains unchanged until it is changed.

5 **Press the CD ► MD EDIT (HIGH/NORMAL) button to start recording.**

HIGH : High speed recording.
NORMAL : Normal speed recording.

- Recording is performed digitally.

Notes:
- Recording from a CD to a MiniDisc starts even if all the tracks on the CD cannot fit in the MiniDisc. In that case, both the CD and MD stop when the MD becomes full.
- When the CD reaches its end, recording to MD will stop simultaneously.
- You can record from a CD you programmed.
- Recording can be performed in repeat playback mode. The repeat playback can be switched during recording.

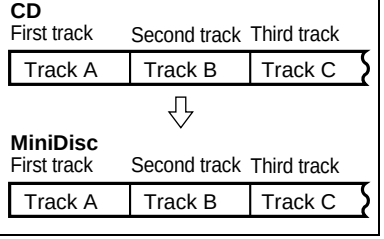
To stop recording:
Press the CD ■ or MD ■ button.
The CD and MiniDisc will stop.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

About track numbers:

New track numbers will be created automatically according to the original tracks (Synchro mark function).

- When you record from a CD to a MiniDisc, the track numbers recorded on the MiniDisc may not match the track numbers on the CD.



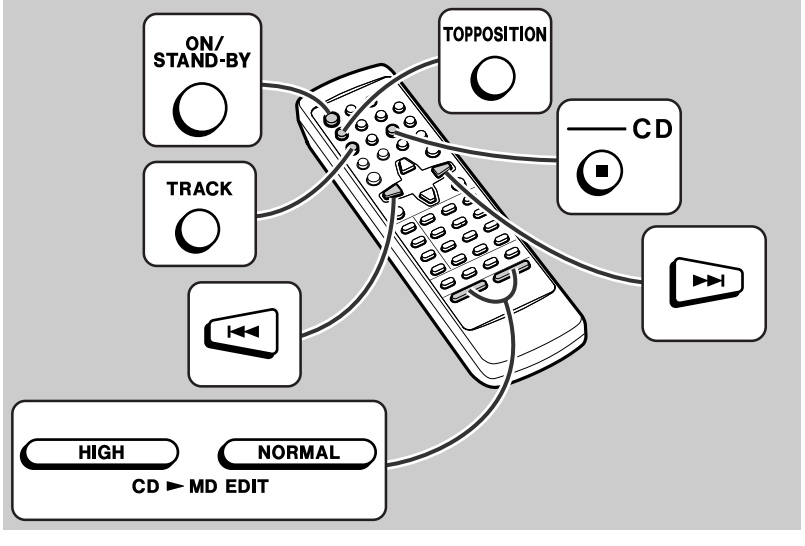
Notes for long recording mode:
- Tracks recorded in 2 times long recording or 4 times long recording mode cannot be played with units that do not support these modes.
- On such a unit, "LP :" is displayed at the beginning of the track and no sound is heard. (The operation and the display may vary depending on the unit.)

Note for high speed recording:
Due to the scratch, dirt, or the recorded condition, the sound may be cut in pieces or the noise is heard from the MD recorded in high speed. If this occurs, record the MD at the normal speed.

Caution for 4 times long recording (LP4):
Special compressing method allows the 4 times long recording to realize long-time stereo recording. Therefore, some noise is recorded occasionally.
If sound quality is the main requirement, stereo recording or 2 times long recording is recommended.

Recording to a MiniDisc from a CD (continued)

■Recording the desired tracks of the CD



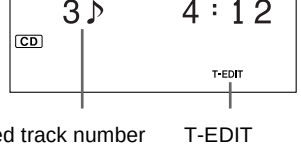
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CD ■ button and load the desired CD.**

3 **Load a recordable MiniDisc into the MD compartment.**

4 **Press the ⏮ or ⏭ button to select the desired track.**

5 **Press the TRACK button to programme the track number.**



Selected track number T-EDIT

6 **Repeat steps 4 - 5 for other tracks. Up to 20 tracks can be programmed.**

- If more than 20 tracks are selected, "EDIT OVER" is displayed and the 21st track will not be memorised.

7 **Press the CD ► MD EDIT (HIGH/NORMAL) button to start recording.**

When the recording is finished, the selected tracks will be cleared.

To memorise a track whilst listening to it:

1 When you hear a track you want to record during playback, press the TRACK button.
   - The track is memorised. (Maximum 20 tracks can be memorised.)
2 After the track is memorised, press the CD ■ button to stop playback.
3 Press the HIGH or NORMAL button to start recording.

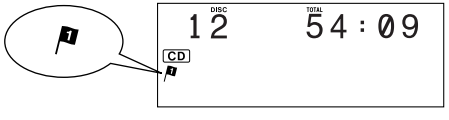
To clear the memorised tracks:
Press the CD ■ button whilst in the stop mode.

■Recording on the top position of a recorded MiniDisc

1 Prepare for recording.

To record from a CD:	To record from the radio:
Load the desired CD and a recordable MiniDisc.	Tune in to the desired station and load a recordable MiniDisc.

2 Press the TOP POSITION button.



One more press will cancel the top position mode.

3 Start recording.

To record from a CD:	To record from the radio:
Press the HIGH or NORMAL button.	Press the MD ▶II button after pressing the REC ● button.

When the recording is finished, the top position mode will be cancelled.
The recorded track will be the first track on the MiniDisc.
All the tracks previously recorded will be renumbered.

Note:
- Whilst in the pause mode or recording, the top position mode cannot be set or cancelled.

■Adjusting the recording level

You can adjust the recording level depending on the recording source by watching the level meter.

1 Press the CD ■ button.

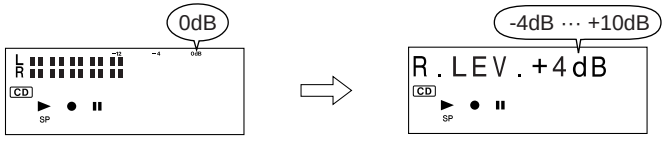
2 Press the ⏮ or ⏭ button to select the desired track.

3 Press the REC MODE button to select the recording mode.

4 Press the CD ▶II button to start playback.

5 Press the REC ● button to pause recording.

6 Press the REC LEVEL/CURSOR < or > button to adjust the recording level.



Level meter — Recording level

- Maximum level should not exceed "0dB".
- The recording level can be adjusted in 2dB intervals between - 4dB and +10dB.
- At this time, you can adjust the recording level with the ⏮ or ⏭ button.

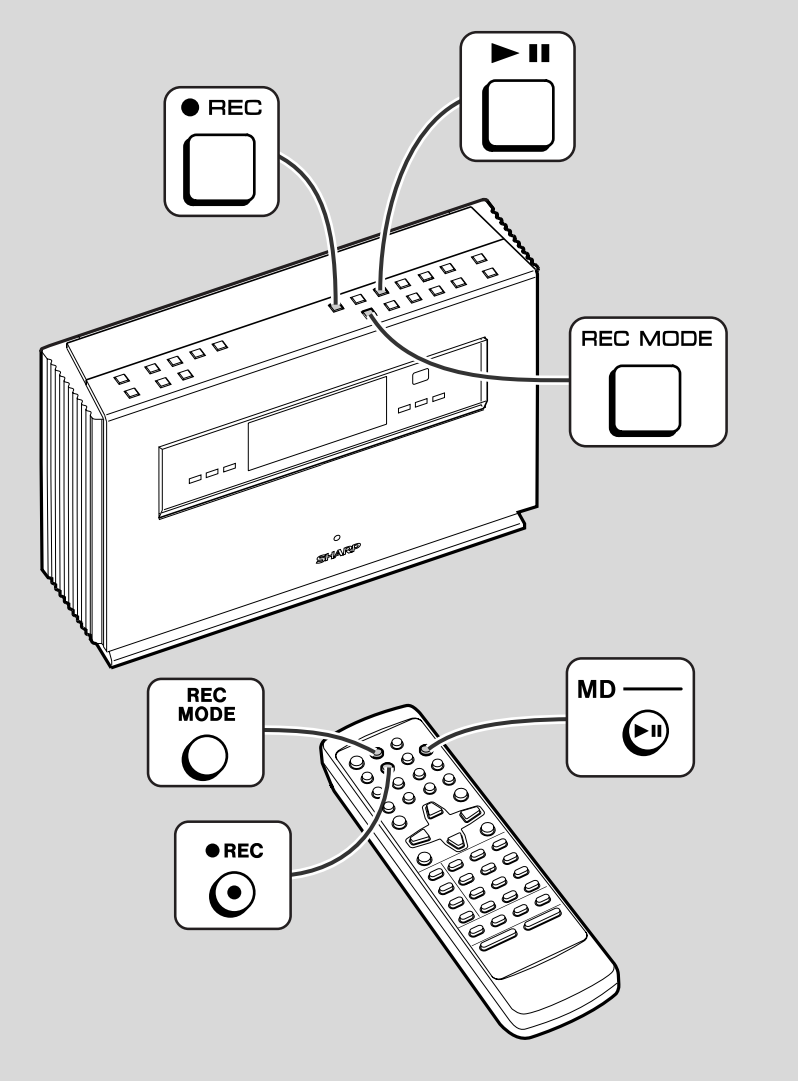
7 Press the CD ■ button.

8 Press the ⏮ or ⏭ button again to select the desired track to be recorded.

9 Press the CD ▶II button again to start recording.

To stop recording:
Press the MD ■ button.
The MiniDisc will stop.
The CD will continue playback.

Recording to a MiniDisc from the Radio

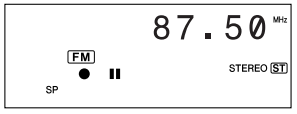


1 **Tune in to the desired station. (See page 25.)**

2 **Load a recordable MiniDisc into the MD compartment.**

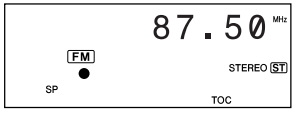
3 **Press the REC MODE button to select the recording mode.**

4 **Press the REC ● button.**



● The unit will enter the recording stand-by mode.

5 **Press the MD ►II button to start recording.**



To interrupt recording:
Press the MD ►II button.
To resume recording from the same point of MiniDisc, press the MD ►II button again.

To stop recording:
Press the MD ■ button.
The MiniDisc will stop.

About track numbers:

A recording is performed as a single track, and only one number is created.

Radio
First track | Second track | Third track
Track A | Track B | Track C

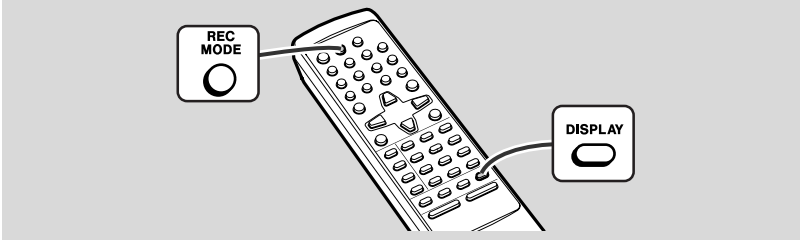
⇩

MiniDisc
Single track
(Track A) (Track B) (Track C)

To mark track numbers whilst recording from the radio:
Press the REC ● button at the desired position during recording to create a new track number. The track counter will be increased by one every time the button is pressed.

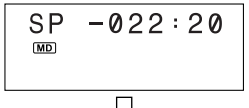
Checking Displays

■To check the recording mode and remaining recording time

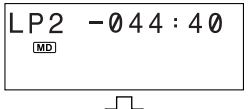


Whilst in the stop mode in MD function, press the REC MODE button.

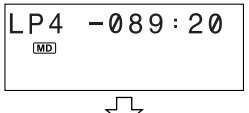
Each time the button is pressed, the display will change as follows.



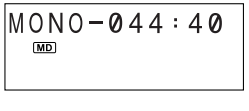
Remaining time in stereo recording mode



Remaining time in 2 times long recording mode



Remaining time in 4 times long recording mode



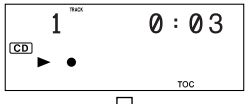
Remaining time in monaural recording mode

- After the remaining recording time is displayed, the display will return to normal.
- When resuming recording, it will be started in the recording mode that is confirmed in this procedure.

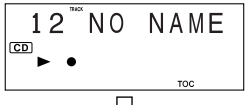
■To check the display whilst in the recording mode

Whilst in the recording mode, press the DISPLAY button.

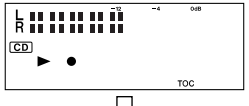
Each time the button is pressed, the display will change as follows.



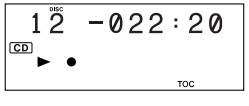
Elapsed playing time



"NO NAME" appears.



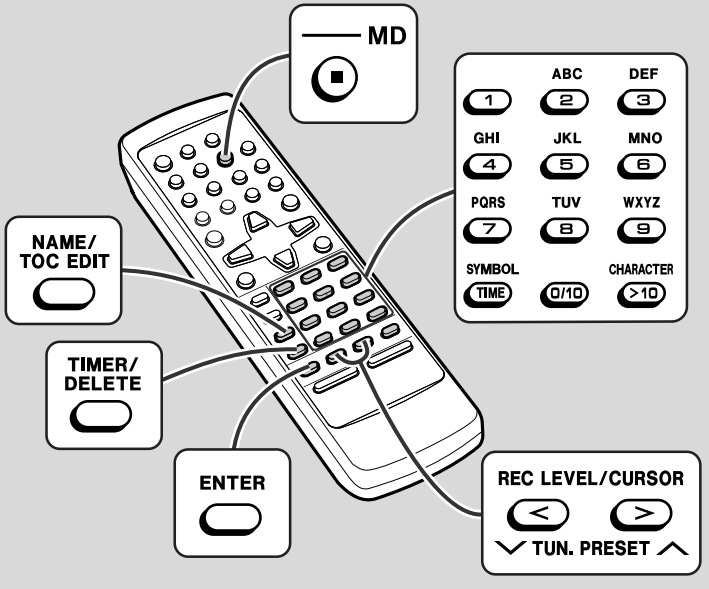
Level meter



Remaining recording time

- When recording is finished, the display will return to normal.
- Even if the recording mode is monaural, the level meter is displayed in stereo.

Titling a MiniDisc



■ Creating disc and track names

You can give a name to discs and tracks.
One disc name and up to 255 track names can be created per disc (a maximum of 40 characters for the disc and each track name and a total of 1,700 characters can be entered).

- Playback-only MiniDisc cannot be edited.

1 Press the MD ■ button and load a MiniDisc. (See page 20.)

2 Select either "DISC NAME" or "TRACK NAME".

To create a disc name:

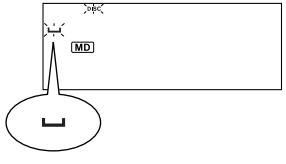
Whilst in the stop mode of MiniDisc, press the NAME/TOC EDIT button, and within 10 seconds, press the REC LEVEL/CURSOR < or > button to select "DISC NAME".

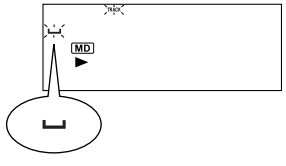
To create a track name:

During playback or in the pause mode of MiniDisc, press the NAME/TOC EDIT button to select "TRACK NAME".

3 Within 10 seconds, press the ENTER button.

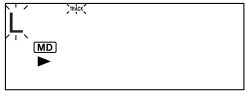
- To cancel the operation, press the NAME/TOC EDIT button.





- The unit will enter the character input mode.

4 Press the 1 - 10, SYMBOL and CHARACTER buttons to enter the characters.



- The CHARACTER button allows switching between capital and small letters.
- You can enter the following symbols by pressing the SYMBOL button.

5 When the name has been completely entered, press the ENTER button.

Characters (symbols):

CHARACTER >10	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9	0/10
Capital letters ⇕ **Small letters**	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9	0 ⬚
	1	abc 2	def 3	ghi 4	jkl 5	mno 6	pqrs 7	tuv 8	wxyz 9	0 ⬚

SYMBOL TIME	– . , / : ? & ( ) ! " # $ % * ; < = > @ _ ` + ' ⬚

⬚ : indicates a space.

To erase disc and track names:

1 Perform steps 1- 2 in the "Creating disc and track names" section on page 41.

2 Press the TIMER/DELETE button for 3 seconds or more.

- "NAME CLEAR?" will appear.

3 Press the ENTER button to finish.

To delete a character:

1 Perform steps 1- 3 in the "Creating disc and track names" section on page 41.

2 Press the REC LEVEL/CURSOR < or > button on the remote control to flash the character to be deleted.

3 Press the TIMER/DELETE button.

4 Press the ENTER button to finish.

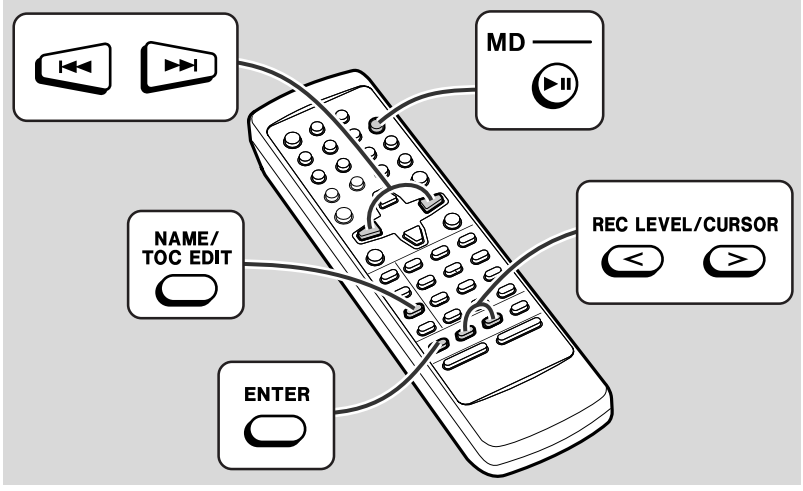
To add a character:

1 Perform steps 1- 3 in the "Creating disc and track names" section on page 41.

2 Press the REC LEVEL/CURSOR < or > button on the remote control to flash the character before which you want to add a new character.

3 Select a character to enter, press the ENTER button.

Titling a MiniDisc (continued)



To change a character:
Example) To change "LAVE" to "LOVE"

1 Perform steps 1- 3 in the "Creating disc and track names" section on page 41.
2 Press the REC LEVEL/CURSOR < or > button on the remote control to flash the character to be changed.

3 Press the TIMER/DELETE button.

4 Enter a new character.

5 Press the ENTER button.

Editing a Recorded MiniDisc

■ To divide a track

1 Play the track which you want to divide into two, and press the MD ▶II button at the point where you want to divide the track.

2 Press the NAME/TOC EDIT button, and within 10 seconds, select "DIVIDE" by pressing the REC LEVEL/CURSOR < or > button.

3 Within 10 seconds, press the ENTER button.

- To cancel the operation, press the NAME/TOC EDIT button.

4 Press the ENTER button again.

- The track is divided, and the unit is stopped at the beginning of the second of the two tracks.
- The numbers of the tracks which come after the divided track are automatically increased by one.

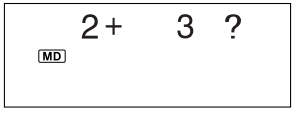
Notes:
- If you divide a track that has a name and the date of recording, the two new tracks will have the same name and the date of recording.
- However, if there is not enough space to memorise the characters in "TOC", the second track will not be named.
- Each disc can hold up to 255 tracks. However, even if the number of assigned tracks has not reached 254, it might not be possible to make any further divisions of tracks.

■ To combine tracks

1 Whilst in the stop mode, select the second of the two adjacent tracks you want to combine by pressing the ⏮ or ⏭ button. Or start playing the second of the two tracks you want to combine, and then press the MD ⏯ button.

2 Press the NAME/TOC EDIT button, and within 10 seconds, select "COMBINE" by pressing the REC LEVEL/CURSOR < or > button.

3 Within 10 seconds, press the ENTER button.



- To cancel the operation, press the NAME/TOC EDIT button.

4 Press the ENTER button again.

- The two tracks are combined, and the unit is stopped at the beginning of the combined track.
- The numbers assigned to the tracks following the combined track are automatically decreased by one.

Notes:

- First, put the two tracks next to each other in the order you want using the MOVE function. Then combine them using the COMBINE function.
- This function cannot be used in the random play mode and programmed play mode.
- If both tracks to be combined have a name, or only the first track has a name, the first track name will be used.
- When the first track does not have a name, the combined track will be named as follows.

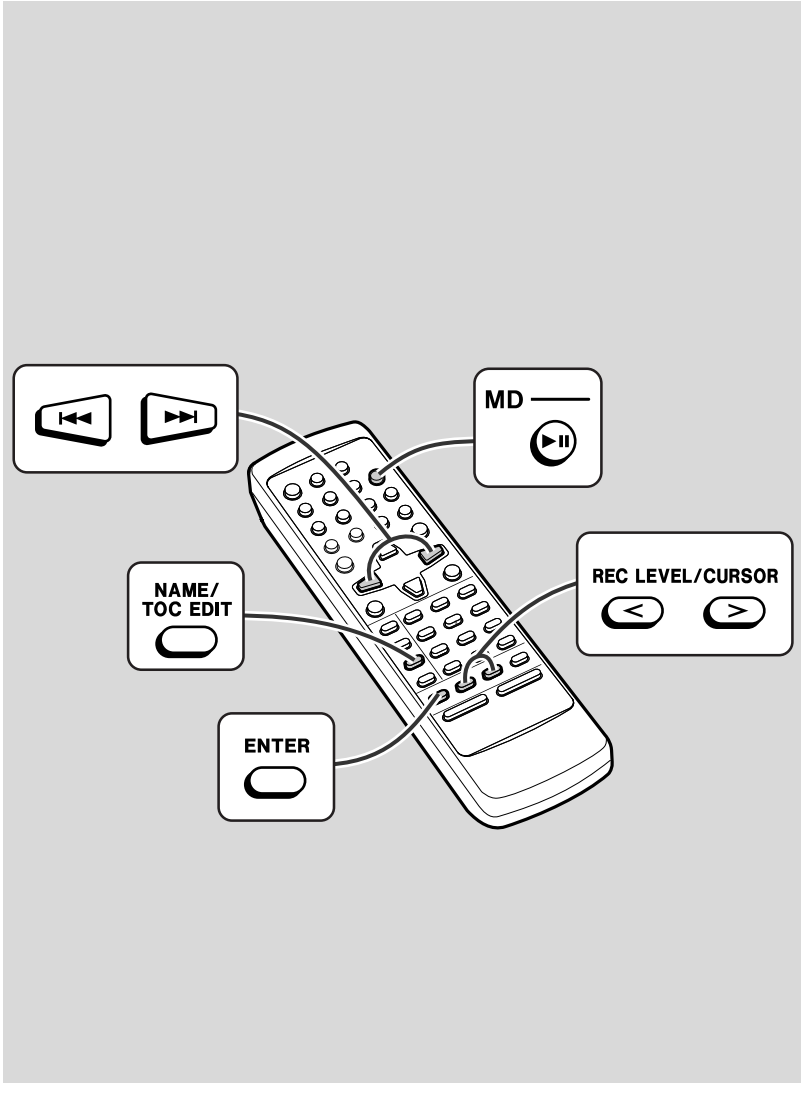
  The second track name will be used for tracks recorded in monaural or stereo.

  No name will be given to tracks recorded in 2 times or 4 times long recording mode.

In the following cases, tracks may not be combined.

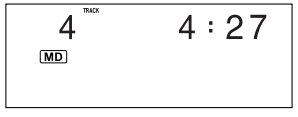
- Digital recorded track and analogue recorded track.
- Tracks recorded in different recording modes (monaural, stereo, 2 times long recording, 4 times long recording) cannot be combined.
- Short tracks may not be combined (8 seconds for stereo, 16 seconds for monaural and 2 times long recording, 32 seconds for 4 times long recording).

Editing a Recorded MiniDisc (continued)



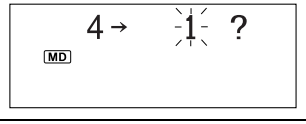
■ To move a track

1 **Whilst in the stop mode, select the track you want to move by pressing the ⏮ or ⏭ button. Or start playing the track to be moved, and then press the MD ⏯ button.**

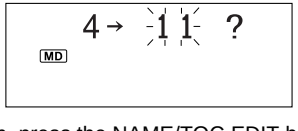


2 **Press the NAME/TOC EDIT button, and within 10 seconds, select "MOVE" by pressing the REC LEVEL/CURSOR < or > button.**

3 **Within 10 seconds, press the ENTER button.**



4 **Select the new track position by pressing the ⏮ or ⏭ button.**



- To cancel the operation, press the NAME/TOC EDIT button.

5 **Press the ENTER button again.**

- The track is moved, and the unit is stopped at the beginning of the track selected in step 4.

■ To move the programmed tracks

1 Programme the tracks you want to move. (See page 24.)

2 Press the NAME/TOC EDIT button.

3 Within 10 seconds, press the ENTER button.

- To cancel the operation, press the NAME/TOC EDIT button.

4 Press the ENTER button again.

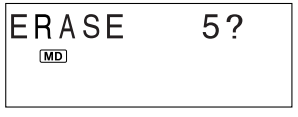
- Tracks are rearranged.
- The programmed tracks will come to the top of the disc.

Note:
- If a track is programmed twice or more, the first instruction will precede to the others.

■ To erase one track

1 Whilst in the stop mode, select the track you want to erase by pressing the ⏮ or ⏭ button. Or start playing the track to be erased, and then press the MD ⏯ button to enter the pause mode.

2 Press the ERASE button.



- To cancel the operation, press the MD ■ button.

3 Press the ERASE button for 2 seconds or more.

- The track is erased, and the unit is stopped at the beginning of the next track.

Caution:
Once a track has been erased, it cannot be recovered. Check the track number before erasing it.

Notes:
- When a track is erased, the numbers assigned to the tracks following the erased track will be automatically decreased by one.
- When a track is erased, the track name will be erased at the same time.
- It is also possible to erase tracks by selecting either menu of "ERASE" or "ALL ERASE" with the NAME/TOC EDIT button on the remote control.

Editing a Recorded MiniDisc (continued)

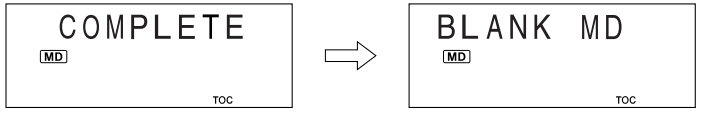
■ To erase all the tracks at once

1 Press the MD ■ button.

2 Press the ERASE button.

- To cancel the operation, press the MD ■ button.

3 Press the ERASE button for 3 seconds or more.



- All the track numbers and track names are erased.

■ To erase the programmed tracks at once

1 Programme the tracks you want to erase. (See page 24.)

- Up to 20 tracks can be programmed.

2 Press the NAME/TOC EDIT button on the remote control.

3 Within 10 seconds, press the REC LEVEL/CURSOR < or > button on the remote control to select the "PRGM ERASE".

4 Within 10 seconds, press the ENTER button on the remote control.

- To cancel the operation, press the MD ■ button.

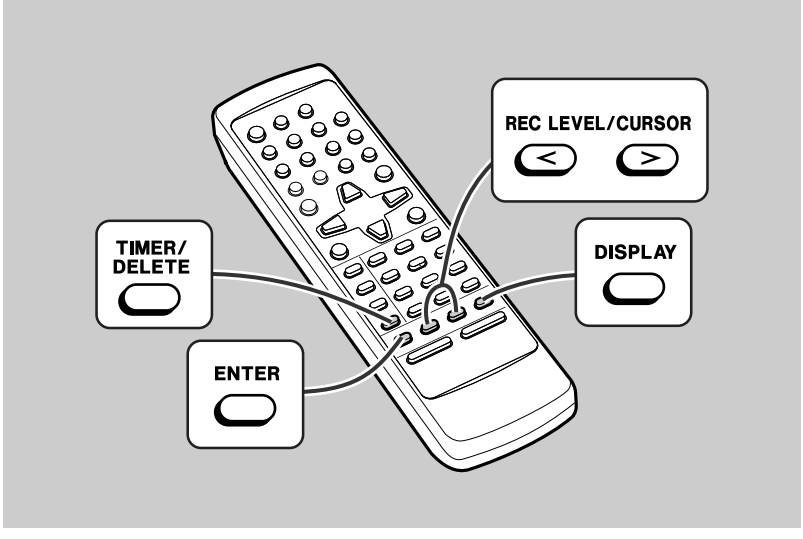
5 Press the ENTER button on the remote control.

- The programmed tracks are erased.

Timer and Sleep Operation

Timer playback:
The unit turns on and plays the desired source (CD, MD, TUNER, AUX, OPT) at the preset time. At the end time, the unit enters the power stand-by mode automatically.

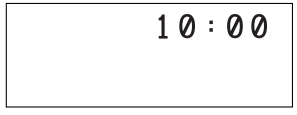
Timer recording:
The unit turns on and starts recording from the desired source (TUNER, AUX, OPT) at the preset time. At the end time, the unit enters the power stand-by mode automatically.



■ Timer playback/Timer recording

Before setting timer:

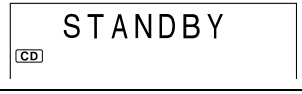
Whilst the power is in the stand-by mode, press the DISPLAY button on the remote control to check that the clock is on time.



⇩

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TIMER/DELETE button.**



3 **Within 10 seconds, press the REC LEVEL/CURSOR < or > button to select "TIMER SET".**

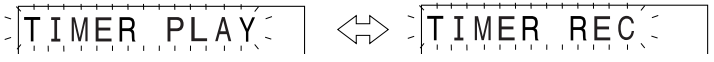
4 **Within 10 seconds, press the ENTER button.**

Continued to the next page

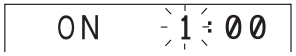
Timer and Sleep Operation (continued)

5 **Press the REC LEVEL/CURSOR < or > button to select "TIMER PLAY" or "TIMER REC" mode.**

For timer playback: **For timer recording:**



6 **Press the ENTER button.**

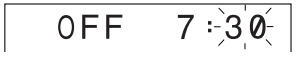


7 **Press the REC LEVEL/CURSOR < or > button to specify the hour to start, and press the ENTER button.**

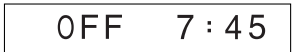
8 **Press the REC LEVEL/CURSOR < or > button to specify the minutes, and press the ENTER button.**

- Unless the timer setting is changed, the ending time will automatically be set for one hour after the starting time.

9 **Press the REC LEVEL/CURSOR < or > button to specify the hour to stop, and press the ENTER button.**



10 **Press the REC LEVEL/CURSOR < or > button to specify the minutes, and press the ENTER button.**



11 **Press the REC LEVEL/CURSOR < or > button to select the desired function.**

To select the timer playback source: CD, MD, TUNER, AUX or OPT.

To select the timer recording source: TUNER, AUX or OPT.

12 **Press the ENTER button.**

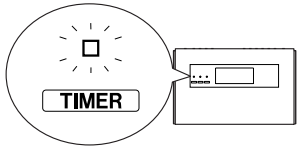
13 **Press the REC LEVEL/CURSOR < or > button to adjust the volume.**

- Be careful not to turn the volume up too high.

14 **Press the ENTER button.**

Timer playback Timer recording

- The timer setting is displayed in order.
- The unit will enter the stand-by mode and then the playback or recording stand-by mode automatically.



When the preset time is reached, playback or recording will start.

- In timer playback, the volume will increase gradually. In timer recording, it will start with the volume you set.

When the timer end time is reached, the system will enter the power stand-by mode automatically.

■ Using the same timer setting

Once memorised, the timer setting can be used as follows.

1 Press the TIMER/DELETE button.

2 Within 10 seconds, press the REC LEVEL/CURSOR < or > button to select "STANDBY".

If "STANDBY" is not displayed, the clock setting has been cleared.

In this case, reset the clock and the timer.

3 Within 10 seconds, press the ENTER button.

The timer setting is displayed in order.

The unit will enter the stand-by mode and then the playback or recording stand-by mode automatically.

Notes:

- The timer setting will be cleared when the unit is unplugged or the power failure occurs.
- The timer playback is possible with a CD or MD even if the repeat, random, or programmed playback is set.
- When performing timer playback or recording using another unit connected to the AUX IN or DIGITAL IN sockets, select "AUX" or "OPT" in step 11. At this time, only this stereo system will be turned off automatically. (Another unit will not be turned off.)

To check the timer setting:

1 Whilst in the timer playback or timer recording stand-by mode, press the TIMER/DELETE button.

2 Within 10 seconds, press the REC LEVEL/CURSOR < or > button to select "TIMER CALL".

3 Press the ENTER button.

- After the timer setting is displayed in order, the display will return to normal.

To change the timer setting:

Perform "Timer playback/Timer recording" from the beginning. (See pages 48 - 49).

To cancel the timer playback/timer recording:

- If the power is turned on whilst in the playback or recording stand-by mode, the timer setting will be cancelled.
- Proceed as follows to cancel without turning the power on.

1 Press the TIMER/DELETE button.

2 Within 10 seconds, press the REC LEVEL/CURSOR < or > button to select "CANCEL".

3 Press the ENTER button.

Timer and Sleep Operation (continued)

■ Sleep operation

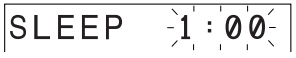
The radio, CD, and MiniDisc can all be turned off automatically.

1 Play back the desired sound source.

2 Press the TIMER/DELETE button.

3 Within 10 seconds, press the REC LEVEL/CURSOR < or > button to select "SLEEP".

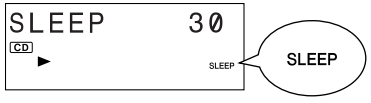
4 Within 10 seconds, press the ENTER button.



5 Press the REC LEVEL/CURSOR < or > button to specify the sleep time.

(Maximum: 2 hours - Minimum: 1 minute)

6 Press the ENTER button.



7 Your system will enter the power stand-by mode automatically after the preset time has elapsed.

- The volume will be turned down 1 minute before the sleep operation finishes.

To confirm the remaining sleep time:

1 Press the TIMER/DELETE button whilst the sleep timer is set.

2 Within 10 seconds, press the REC REVEL/CURSOR < or > button to select "SLEEP".

Remaining sleep time

- The display will return to normal after approximately 10 seconds.
- You can change the sleep time.
- Press the ENTER button whilst the sleep remaining time is displayed (see steps 5 - 6 on the left).

To cancel the sleep operation:

The sleep timer is cancelled when the unit enters the stand-by mode.
To cancel only the sleep timer without setting the unit to the stand-by mode, proceed as follows.

1 Press the TIMER/DELETE button whilst the sleep timer is set.

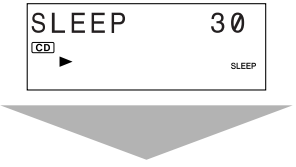
2 Within 10 seconds, press the REC LEVEL/CURSOR < or > button to select "SLEEP OFF".

3 Within 10 seconds, press the ENTER button.

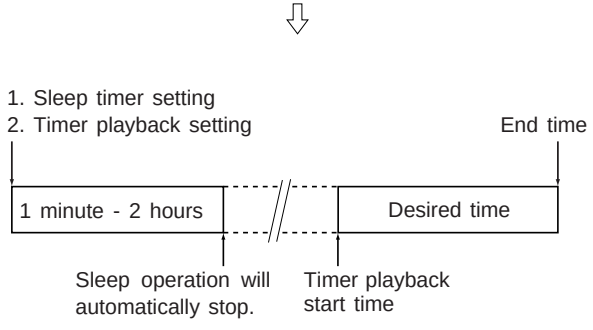
■ To use sleep and timer playback in combination

You can fall asleep to the radio and wake up with the sound from a CD.

1 Set the sleep time (steps 1 - 6, page 51).



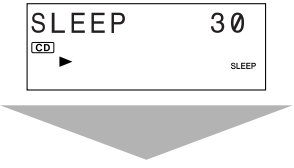
2 Set the timer playback (steps 1 - 14, pages 48 - 49).



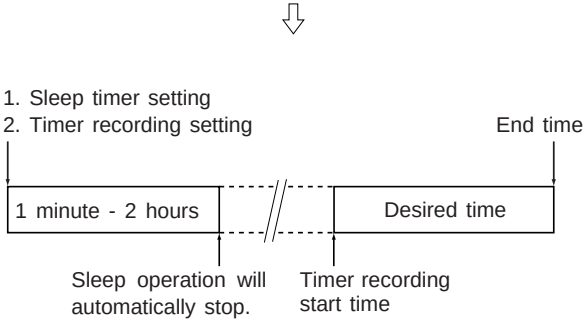
■ To use sleep and timer recording in combination

You can fall asleep to the sound from a CD and record the desired station whilst you are sleeping.

1 Set the sleep time (steps 1 - 6, page 51).

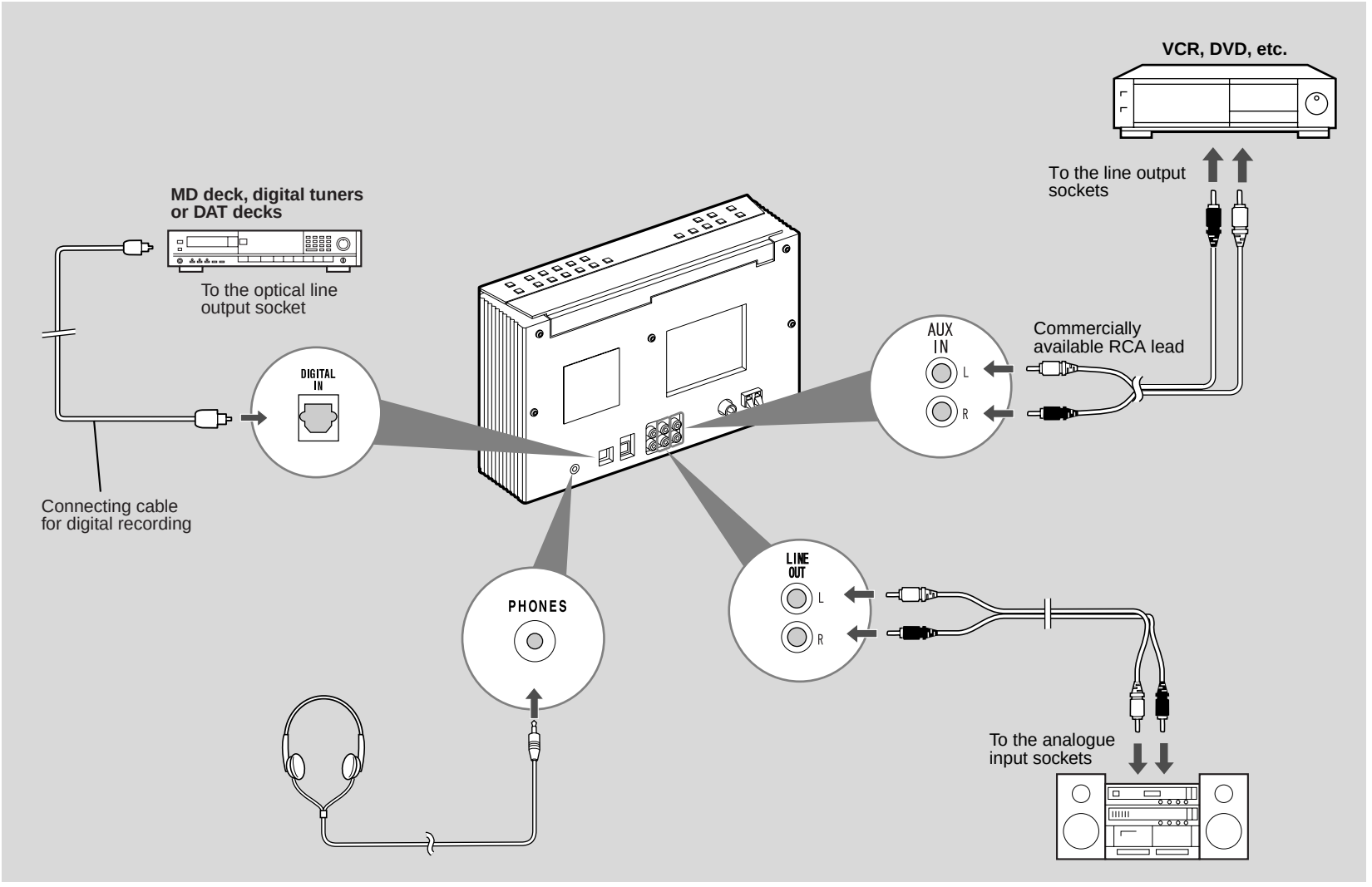


2 Set the timer recording (steps 1 - 14, pages 48 - 49).



Enhancing Your Stereo System

Before connecting external units, set this unit to the stand-by mode and turn off the power of the external units.



■ Listening to the playback sounds from the connected equipment

1 Press the AUX (DEMO) button to select "AUX ANALOG" or "AUX DIGITAL".

In analogue input **In digital input**

In "AUX DIGITAL" input, "NO SIGNAL" may be displayed depending on the connected equipment.

2 Play the connected equipment.

3 Adjust the volume using the VOLUME buttons.

■ Recording on a MiniDisc (Normal recording)

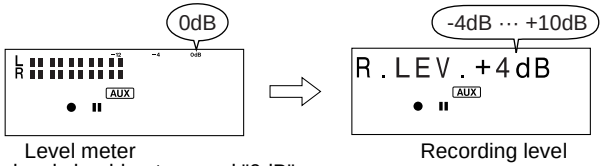
1 Press the AUX (DEMO) button to select "AUX ANALOG" or "AUX DIGITAL".

2 Load a recordable MiniDisc into the MD compartment, label side up.

3 Press the REC ● button.

4 Play the connected equipment.

5 Press the REC LEVEL/CURSOR < or > button to adjust the recording level.



Level meter Recording level

- Maximum level should not exceed "0dB".
- The recording level can be adjusted in 2dB intervals between - 4dB and +10dB.
- If the recording level is too low, the sound volume will be decreased. If it is too high, the sound will be distorted.

6 Press the MD ►II button.

■ Recording on a MiniDisc (Sound synchronised recording)

1 Press the AUX (DEMO) button.

2 Load a recordable MiniDisc into the MD compartment, label side up.

3 Press the S-SYNC ● REC button on the remote control.

4 Play the connected equipment.

- Recording will start automatically.
- The recording level is the level adjusted in the previous recording. (This level can also be adjusted whilst recording.)

■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME buttons.

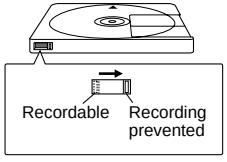
What is a MiniDisc?

The disc is stored in a cartridge. You can handle it easily without worrying about dust, fingerprints, etc. However, dust entering the opening of the cartridge, dirt on the cartridge, warping, etc. may cause malfunctions. Please note the following.

■ To prevent recorded MiniDiscs from being erased accidentally

Slide the accidental erase prevention tab, located on the side of the MiniDisc, in the direction indicated by the arrow.

- The MiniDisc is then be protected against accidental erasure.



To add a recording to such a MiniDisc, slide the accidental erase prevention tab back to its original position.

■ Helpful tip when attaching a label

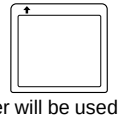
When attaching a label to a MiniDisc cartridge, be sure to note the following. If the label is not attached properly, the MiniDisc may jam inside the unit and it may not be possible to remove it.

- If the label peels off or partially lifts away, replace it with a new one.
- Do not put a new label on top of an existing one.
- Attach the label only in the specified location.

■ Types of discs

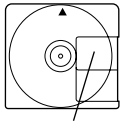
There are two types of discs: playback-only and recordable types.

- **Playback-only MiniDisc:**
  This type of MiniDisc is used for commercially available prerecorded music. This is the same kind of optical disc as CDs. Playback is performed using an optical pickup. (Recording and editing are not possible.)



A Shutter will be used on only one side (back).

- **Recordable MiniDisc:**
  This is a "raw disc" on which recording can be performed. A magneto optical disc is used. Recordings are made using a laser and magnetic field. Repeated recording is possible.



Shutters will be used on both sides.

MiniDisc System Limitations

Even if the maximum recording time of a MiniDisc has not been reached, "TOC FULL" may be displayed.	In the MD system, the delimiter of the recording area on a MiniDisc is programmed in a TOC. If partial erasing, recording and editing are repeated several times, TOC information will fill up, even though the number of tracks has not reached the limit (255 tracks), and further recording will be impossible. (If you use the all erase function, this MiniDisc can be used from the beginning.)
Even if the maximum recording time of a MiniDisc has not been reached, "DISC FULL" may be displayed.	If there is any flaw on the MiniDisc, that part is automatically excluded from the space available for recording. Therefore, the recording time becomes shorter.
Even if several short tracks are erased, the remaining recording time may not show an increase.	When the remaining recording time of a disc is displayed, short tracks less than 12 seconds long may not be included in the total.
Two tracks may not be combined in editing.	For MiniDiscs on which repeated recording and editing operations were performed, the COMBINE function may not work. A track recorded from a CD (digital recording) and a track recorded from a radio or other equipment (analogue recording) cannot be combined.
The total of the recorded time and time remaining on a disc may not add up to the maximum possible recording time.	A cluster (about 2 seconds) is normally the minimum unit of recording. So, even if a track is less than 2 seconds long, it will use about 2 seconds of space on the disc. Therefore, the time actually available for recording may be less than the remaining time displayed. If there are scratches on discs, those sections will be automatically avoided (no recording will be placed in those sections). Therefore, the recording time will be reduced.
If recorded tracks are fast reversed or fast forwarded, the sound may skip.	A MiniDisc which has been recorded or edited repeatedly may skip during fast reverse or fast forward.

Error Messages

When an error message is displayed, proceed as follows:

Error messages	Meaning	Remedy
BLANK MD	● Nothing is recorded. (Neither music nor disc name is recorded.)	● Replace it with another disc.
Can't COPY	● You tried to record from a copy prohibited CD.	● Replace the CD.
Can't EDIT	● A track cannot be edited.	● Change the stop position of the track and then try editing it.
Can't READ* **(*: Number or symbol)**	● The disc is damaged. ● TOC information cannot be read. ● MiniDisc not specified.	● Replace it with another disc. ● Erase the disc and try recording again.
Can't REC	● Recording cannot be performed correctly due to vibration or shock in the unit.	● Re-record or replace the MiniDisc.
Can't T REC	● Timer recording is impossible or there is no available space on the MD. ● The disc is out of recording space.	● Replace it with another recordable disc.
Can't WRITE	● The TOC information could not be created properly due to a mechanical shock or to scratches on the disc.	● Set this unit to the stand-by mode and try to write the TOC again. (Remove any source of shock or vibration whilst writing.)
CD NO DISC	● A CD has not been loaded. ● The CD data cannot be read.	● Load a CD. ● Reload the CD.
DISC FULL	● The disc is out of recording space.	● Replace the disc with another recordable disc.
EDIT OVER	● You chose 21 or more tracks for track editing.	● Decrease the number of tracks.
Er - MD ** **(: Number or symbol)**	● A MiniDisc is not working properly.	● Press the MD ⏏ button. ● Set this unit to the stand-by mode and turn the power on again.

Error messages	Meaning	Remedy
MD NO DISC	● A MiniDisc has not been loaded. ● The MiniDisc data cannot be read.	● Load a MiniDisc. ● Reload the MiniDisc.
NAME FULL	● The number of characters for the disc name or track name exceeds 40.	● Shorten the disc or track name.
NOT AUDIO	● The data recorded on this disc is not audio data.	● Replace the disc.
PLAYBACK MD	● You tried to record on a playback-only disc.	● Replace it with another recordable disc.
POWER ?	● A MiniDisc is not working properly.	● Set this unit to the stand-by mode and turn the power on again.
PROTECTED	● The disc is write protected.	● Move the write protection tab back to its original position.
TEMP OVER	● The temperature is too high.	● Set this unit to the stand-by mode and wait for a whilst.
TOC FORM ** **(: Number or symbol)**	● TOC information recorded on the MD does not match the MiniDisc specifications or it cannot be read.	● Replace it with another disc. ● Erase the disc and try recording again.
TOC FULL	● There is no space left for recording track numbers.	● Replace it with another recordable disc.
TOC FULL 1	● There is no space left for recording character information.	● Replace it with another recordable disc. ● Erase the needless characters.
? MD DISC	● The data contains an error. ● MiniDisc not specified.	● Press the MD ⏏ button. ● Replace it with another disc.

Troubleshooting Chart

Many potential "problems" can be resolved by the owner without calling a service technician.

■ General

Symptom	Possible cause
● "TIME ADJUST" appears when the clock time is checked.	● Did a power failure occur? Reset the clock. (Refer to page 16.)
● When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on.
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?
● The picture on the TV screen is distorted.	● When a radio or TV which uses an indoor aerial is placed near the unit, the picture on the TV screen may be distorted or the radio may not function properly. ● It is recommended that you use an external aerial.
● Cannot adjust the volume.	● Is the sound connection lead connected to the LINE OUT sockets on the MD/CD/tuner unit? Set the unit to the stand-by mode and connect the lead to the SYSTEM OUT sockets. (See page 13.)

■ CD player

Symptom	Possible cause
● Even though a disc has been loaded, "CD NO DISC" or "Can't READ" is displayed.	● The disc is very dirty. ● Is the unit located near excessive vibrations? ● Has condensation formed inside the unit?
● Playback does not start.	● The disc is loaded upside down.
● Playback stops in the middle or is not performed properly.	● The disc does not satisfy the standards. ● The disc is distorted or scratched.
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● The disc is very dirty. ● Has condensation formed inside the unit?

■ MiniDisc

Symptom	Possible cause
● A recording cannot be made.	● Is the MiniDisc protected against accidental erasure? ● Did you try to make recording on a playback-only MiniDisc? ● Can you see the "DISC FULL" or "TOC FULL" message in the display?
● Even though a disc has been loaded, "MD NO DISC" or "Can't READ" is displayed. ● Playback sounds are skipped.	● The disc is very dirty. ● Is the unit located near excessive vibrations? ● Has condensation formed inside the unit?

■ Tuner

Symptom	Possible cause
● Radio makes unusual noise consecutively.	● The stereo system is placed near the TV or computer. ● FM/AM loop aerial is not placed properly. Move the AC power lead away from the aerial if located near.
● The preset channel cannot be recalled.	● Did a power failure occur? ● Preset the channel again.

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the stereo system plugged in? ● The battery polarity is not correct. ● The batteries are dead. ● Incorrect distance or angle. ● Does the remote control sensor receive strong light?

■ If trouble occurs (reset)

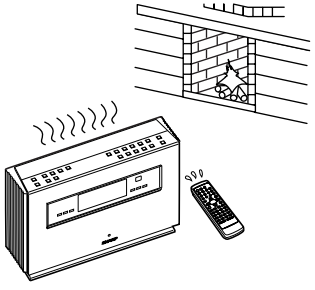
When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:
Unplug the power lead from the AC socket. Then, plug it in again and retry the operation.

Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD or MiniDisc programme.

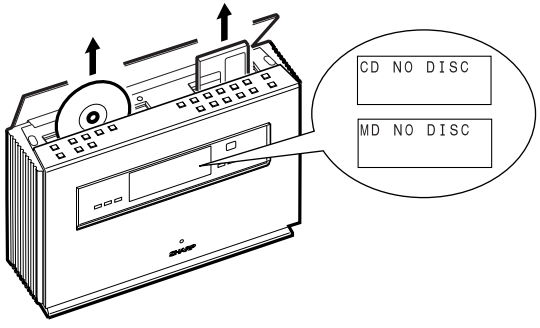
■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, MD pickup, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.



■ Before transporting the unit

Remove the CD and MiniDisc from the unit. Your unit checks whether there are any discs inside. "CD NO DISC" and "MD NO DISC" appear if no disc is inside. Then, set the unit to the power stand-by mode. Carrying the unit with discs left inside can damage it.

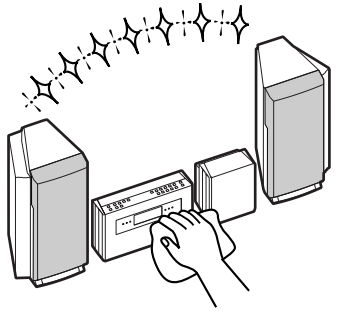


Maintenance

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:
Do not use chemically treated cleaning cloths or other chemicals.



Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 230 V, 50 Hz
Power consumption	Power on: 54 W Power stand-by: 0.6 W (*)
Dimensions	**MD/CD/tuner unit** Width: 318 mm (12-9/16") Height: 210 mm (8-5/16") Depth: 93 mm (3-11/16")
	Amplifier unit Width: 160 mm (6-5/16") Height: 210 mm (8-5/16") Depth: 136 mm (5-3/8")
Weight	**MD/CD/tuner unit** 3.7 kg (8.2 lbs.)
	Amplifier unit 3.5 kg (7.7 lbs.)
Input/output terminals	**MD/CD/tuner unit** Auxiliary input: 500 mV/47 kohms Digital input (optical) System output (RCA) Line output: 500 mV/47 kohms Headphones: 16 - 50 ohms (recommended: 32 ohms) System control (SD-NX10H amplifier unit only)
	Amplifier unit System input (RCA) Speakers; 6 ohms System control (SD-NX10H MD/CD/tuner unit only)

(*) This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 13 to cancel the demonstration mode.

■ Amplifier

Amplification system	64fs 1-bit switching (Remarks:fs = 44.1 kHz)
Rated output power	RMS: 50 W (25 W + 25 W) (DIN 45 324)
A/D noise shaping	7th-order ΔΣ(delta - sigma) modulation

■ CD player

Type	1-disc slot-in type compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ MiniDisc

Type	MiniDisc Recorder
Signal readout	Non-contact, 3-beam semiconductor laser pickup
Rotation speed	400 - 900 rpm CLV, Approx.
Error correction	ACIRC (Advanced Cross Interleave Reed-Solomon Code)
Quantization	20-bit linear (A/D converter)
Coding	ATRAC (Adaptive TRansformed Acoustic Coding), ATRAC 3
Sampling frequency	44.1 kHz
Recording method	Magnetic modulation overwrite method
Frequency response	20 - 20,000 Hz
D/A converter	1-bit D/A converter
Wow and flutter	Unmeasurable (less than 0.001% W. peak)
Signal/noise ratio	95 dB (1 kHz)
Dynamic range	90 dB (1 kHz)
Audio channel	Stereo: 2 channels (SP, LP2, LP4) Monaural: 1 channel (MONO)

■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz

■ Speaker

Type	2-way type speaker system 3 cm (1-3/16") Tweeter 10 cm (4") Woofer
Maximum input power	50 W
Rated input power	25 W
Impedance	6 ohms
Dimensions	Width: 187 mm (7-3/8") Height: 423 mm (16-11/16") Depth: 200 mm (7-7/8")
Weight	3.7 kg (8.2 lbs.)/each

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